



**Port of Palm Beach  
Engineer's Report  
Commission Meeting | April 19, 2018**

**Berth 17 and Paving Project**

Construction activity has progressed slowly since the March board meeting.

As the piles for the west and middle dolphin structures testing reports were approved by AECOM for construction of concrete cap, the contractor continued with the scheduled activities related to the construction of the dolphin structures. The contractor completed the steel forms and rebar installation for both structures. As indicated in the March Board Meeting oral presentation, the concrete pour for the middle and west (inner) dolphin structures were completed on March 5 & 6 respectively. The steel forms were removed a week after the pour, with no apparent problems. On March 16 the AECOM's field engineer inspector noticed the middle dolphin structure had chipped concrete areas at water elevation. The inspector managed to get on to a floating barge near the structure and capture underwater photos. The photos revealed that the middle dolphin structure had major concrete defects, with large voids where the reinforcing steel was exposed. Underwater photos of the west (inner) dolphin, showed missing concrete at the bottom of the structure, as well as voids at the lower wall, with both areas exposing rebar. Notices of Non-Conformance were issued by AECOM to LMH for both structures for action to be undertaken immediately.

LMH indicated that they contracted the services of a structural engineer to analyze and determine the action to be undertaken on both structures. No reports have been submitted by LMH, but the contractor submitted a demolition plan for the middle dolphin structure, and began the demolition on Monday, April 9. LMH has not provided any notification in relation to the structural analysis and actions to be taken regarding the west (inner) dolphin structure, as of the date of this report.

In relation to the east (outer) dolphin structure, the piles test results were evaluated by AECOM, determining that the actual capacity of the four driven piles did not meet the required designed requirements. AECOM provided a remediation structural design, which requires two additional piles to be driven in addition to the four already installed on the east dolphin structure location. The remediation drawings were provided to LMH, in order to proceed with the submittal and material procurement process. LMH submitted correspondence indicating that they are not responsible for the additional work required to the east dolphin structure, and that they are entitled for additional compensation for the related work. In the correspondence, they included a change order proposal for this additional work in the amount of \$372,885.83. LMH also indicated that they are currently performing a time impact analysis to determine the effect of this delay and other changes on the critical path of the Project completion. LMH also submitted a claim for additional work related to the pile driving activity. The claims for additional cost is in the amount of \$560,542.15, for cost incurred to fabricate pipe pile plugs, additional pile tests and for down time resulting from pipe piles not reaching capacities. Both claims for additional costs presented by LMH have been denied by the Engineer of Record (AECOM), as LMH is responsible to perform the work in accordance with the contract requirements, which specifically included achieving the design loading criteria for each pile regardless of the type of pile. LMH has not fulfilled its contractual responsibilities related to dolphin piles. (Attached copies of referenced communications).

Upland construction activities have begun with the site work subcontractor beginning working on the sub-base preparation for the asphalt and concrete pavements. LMH personnel are working on the construction of the storm trench drains on the upland side of the west bulkhead wall. All activities have been started, but not on a daily and continuous basis, with a final completion date unknown.

Regarding the substantial completion dates previously agreed by the Contractor for the delivery of the Berth, none of them have been accomplished. LMH has not submitted a revised schedule update incorporating the pending construction work or the issues related to the dolphin's concrete defects on middle and west structures, as well as the additional piles for the east dolphin.

The substantial completion date of the Berth by LMH is uncertain due to the issues previously mentioned. Port's staff has been evaluating all present and future damages, directly and indirectly caused by the project completion delay. The Port could exercise the terms of the Contract, and execute the entitlement to retain Liquidated Damages in order to mitigate present and future Losses related to the project completion delay.

As of the December 2017 pay application draft, LMH invoices indicate that approximately 90% (\$9,238,371.61 to date / \$1,059,934.48 balance of approved modified Contract amount) of the work is complete to date. The contractor has not submitted the final November 2017, December 2017, January 2018, February 2018 and March 2018 pay applications yet.

### **MOB Demolition and Cargo Area Improvement Project**

CH2M submitted the final 100% Bid Ready completed package to the Port on April 9. Port's staff provided review and comments to CH2M for preparation of final document. FPL, AT&T and Fiber have also received the 100% design package to confirm design information regarding concrete vault locations and new infrastructure conduit location and sizes. CH2M has submitted all permit application processes for the Florida Department of Environmental Protection (FDEP) and Florida Department of Health – Storm Water and Water / Sanitary permits for the conversion of the MOB and adjacent parking area into a cargo laydown yard.

The project design and the contract documents are near completion. The permits have been submitted to the respective public agencies and tenant coordination meetings will be scheduled. Port staff was granted authorization by the Board during the March meeting to advertise the request for Bids to qualified construction companies as soon as the design, permitting and tenant coordination is complete. The project is expected to advertise for RFP in the third week of April.

### **Main Rail Spur Improvement Phase 1**

At the October 2017 meeting, the Board of Commissioners approved the Port's Executive Director to execute the Contract Award for the On-Port Rail Facility Expansion Project Phase One construction project to González and Sons Equipment, Inc., lowest responsive and responsible bidder, in the amount of \$971,154.96.

- Contract Amount: \$975,154.96
- Contract Executed: December 15, 2017.
- Notice to Proceed: January 2, 2018.
- Construction Time: 220 days
- ORIGINAL Project Completion Date: August 2018.
  
- On Friday, January 19, 2018, Port staff submitted the Permit Letter and Application Form to the City Building Division Office. The City provided an invoice for permit related fees on the valuation of work being performed, to be paid by the Port in order to issue a Building Permit. The invoice for permit related fees is in the amount of \$18,137.42. On Friday, March 2, Port Staff submitted the payment for the permit fees. Permit issued by the City of Riviera Beach on Thursday, April 5, 2018.

The submittal and approval process has been completed. Procurement and delivery of materials is underway, with all the rail sections and concrete ties delivered to the construction staging area. Pending material delivery in order to begin the construction activities are the turnouts, which are expected to be delivered by April 13.

- Update: Project Completion Date: July 2018.

#### **Maintenance Dredging of the Channel and Turning Basing - US Army Corps of Engineers**

- US ARMY CE provided final hydrographic survey of the harbor on March 27, survey reflects some accumulation of sand (shoaling) on the channel due to the nor'easter weather received.
- Port's staff met with US ARMY CE engineer Bryan Merrill and the Palm Beach Pilots on Tuesday April 3, to discuss the impact of the shoaling on the Port's vessel traffic.
- Pilots expressed their concerns of the shoaling happening too soon after the maintenance dredging completion, and the future critical effects of the normal shoaling that will continue over time.
- Merrill indicated that the ACOE will initiate the coordination for the request for an emergency dredging of the channel.
- Port sent correspondence to the ACOE, COL Jason Kirk on April 10, requesting the emergency dredging, along with Pilots' letter. (Attached copies of referenced communications)

#### **Berth 1 Bulkhead Improvement Project**

- Permits:
  - FDEP permit has been approved and received.
  - US Army Corps of Engineers
    - Approved permit received. March 28, the US Army Corp of Engineers issued a letter for the authorization by Nationwide Permit (NWP) Number 3 for the *Berth 1 Bulkhead Reconstruction* project under the file number SAJ-1990-03372(NW-LCK).
    - As part of the special conditions for the verification, a coral relocation must be completed of all healthy stony corals greater than 10 centimeters in diameter through a mitigation process.
    - Based on the coral survey report prepared by Coastal Eco-Group Inc for CH2MHill, there is an estimated potential total of 313 colonies over 10 centimeters, which will be required to be relocated to a mitigation reef prior to the reconstruction of the Berth.
    - The Port and CH2M will identify the potential receiver sites for the coral relocation like the Town of Palm Beach's mitigation reef or to an alternate artificial reef receiver site, and the cost associated with this mitigation.



100 Hancock St. Suite 901  
Quincy, MA 02171  
Ph : 617-845-8000

a Cmc Company



## Letter of Transmittal

**To:** Karen Brandon  
AECOM  
2090 Palm Beach Lakes Blvd  
Suite 600  
West Palm Beach, FL 33409  
Ph: 561-515-3907 Fax: 561-689-8531

**Transmittal #:** 536  
**Date:** 3/7/2018  
**Job:** 16-00-004 Port of Palm Beach Berth 17

**Subject:** 1604 POPB Berth 17 - East Dolphin Additional Piles

**WE ARE SENDING YOU**  Attached  Under separate cover via None the following items:  
 Shop drawings  Prints  Plans  Samples  
 Copy of letter  Change order  Specifications  Other

Document Type	Copies	Date	No.	Description
Letter	1	3/7/18		East Dolphin Additional Piles

**THESE ARE TRANSMITTED as checked below:**

- For approval  Approved as submitted  Resubmit \_\_\_ copies for approval
- For your use  Approved as noted  Submit \_\_\_ copies for distribution
- As requested  Returned for corrections  Return \_\_\_ corrected prints
- For review and comment  Other
- FOR BIDS DUE  PRINTS RETURNED AFTER LOAN TO US

**Remarks:**

**Copy To:**

**From:** Andromda Scott (LM Heavy Civil Construcion)

**Signature:** \_\_\_\_\_



March 7, 2018

Port of Palm Beach District  
301 Broadway  
Riviera Beach, FL 33404

Attention: Ms. Karen Brandon, P.E.  
AECOM Operations Manager

Reference: Port of Palm Beach District  
Berth 17 Project

Subject: Pipe Pile Capacities  
PCN 33 Additional Two Piles at East Dolphin No. 3

Dear Ms. Brandon,

LM Heavy Civil Construction, LLC (LMH) has attached to this letter a change order cost proposal to add piles to the East Dolphin. LMH received a revised design from AECOM on February 15, 2018 requesting that two additional piles be added to the East Dolphin. LMH cost for this additional work is Three hundred and Seventy-Two thousand Eight hundred and Eighty-Five dollars and Eighty-Three cents (\$372,885.83).

The Four East Dolphin piles driven, are well below the design expectations and do not provide the required Dolphin capacities. Consequently, AECOM added two additional piles to compensate for the low capacities. These two additional piles have been added to the scope of work to attain a design criterion that LMH has no responsibility or control of.

404 E Atlantic Boulevard, Suite 101 | Pompano Beach, FL 33060

P: 754-218-0200 | F: 754-218-0201 | Toll Free: 855-LMHEAVY | Estimating Fax: 754-218-0201

[www.LMHeavyCivil.com](http://www.LMHeavyCivil.com) | Email: [info@lmheavycivil.com](mailto:info@lmheavycivil.com)

An Equal Opportunity Employer



LMH is currently performing a time impact analysis to determine the effect of this delay and other changes on the critical path of Project completion and will share the results with Port of Palm Beach District as soon as the analysis is complete. As such, the extent of the delay is unknown at this time, LMH reserves its right to request additional time associated with this delay as well as to finalize any time-related cost resulting from this delay. Such costs and time requests will be submitted under separate cover.

We appreciate your reasonable indulgence in allowing us additional time to prepare and compile the proposal(s).

LMH has included all information available to it at this time. LMH hereby specifically reserves its right to supplement this Notice with any further information as it becomes available.

Should you have any questions, please do not hesitate to contact LMH at (754) 218-0200.

Sincerely,  
**LM Heavy Civil Construction, LLC**

Philippe Hewes  
**Project Manager**

Enc.



**RECAPITULATION  
CHART**

Date: March 7, 2018

Est. #	PCN 033
Rev. #	1

**East Dolphin Two Additional Pipe Pile**

1	Labor (Direct Costs)		<u>\$79,714.90</u>
2	Materials		<u>\$42,122.00</u>
3	Equipment		<u>\$129,554.03</u>
<b>3A</b>	<b>Subtotal (Labor + Materials + Equipment)</b>		<b><u>\$251,390.93</u></b>
4	Overhead (0% of Line 3A)		
5	Insurance and Payroll Taxes		<u>9342.59</u>
5A	Workers Compensation		<u>\$4,655.35</u>
6	Health, Welfare & Benefits on Labor		<b><u>\$23,915.56</u></b>
<b>6A</b>	<b>Subtotal (Lines 3A+4+5+5A+6)</b>		<b><u>\$289,304.43</u></b>
7	Profit % of Line 6A	15.00%	<u>\$43,395.66</u>
7A	Subtotal (Lines 6A+7)		<u>\$332,700.09</u>
8	Subcontractor Total		<b><u>\$34,756.00</u></b>
9	5% of Line 8		<u>\$1,737.80</u>
<b>9A.</b>	<b>Subtotal (Lines 7A+8+9)</b>		<b><u>\$369,193.89</u></b>
<b>10</b>	<b>Bond 1% of Line 9A</b>		<b><u>\$3,691.94</u></b>
11	Grand Total		<b><u>\$372,885.83</u></b>

UNIT PRICE                      QTY                                      LS



Insurance & Payroll Taxes	
Federal FICA	7.31%
Federal Unemployment (FUTA)	0.92%
State Unemployment (SUTA)	3.49%
State Health	
Workers Compensation	5.84%
<b>TOTAL</b>	<b>17.56%</b>

Health & Welfare and Other Benefits			
Trade	Hours	Rate	Total
FL - Laborer	268.00	\$6.19	\$1,658.92
MA - Laborer Z2		\$21.70	
MA - Laborer Z3		\$18.53	
MA-Pile Driver	242.00	\$34.38	\$8,319.96
FL - Iron Worker		\$12.09	
FL1809-Pile Dr/Carpe	1128.00	\$10.36	\$11,686.08
FL - Operator	242.00	\$9.30	\$2,250.60
MA - Operator		\$26.76	
MA - Operator O/T		\$1.50	
		\$10.36	
		\$26.43	
Equipment Hours	1720.00		
<b>TOTAL</b>	<b>1880.00</b>		<b>\$23,915.56</b>

CO # PCN 033  
 Rev. # 1

PROJECT: POPB Berth 17  
 OWNER: Port of Palm Beach Berth 17

Date: 3/7/2018

DESCRIPTION OF WORK: East Dolphin Two Additional Pipe Pile

K:\Jobs\LM1085\08-16-00-004 Port of Palm Beach Berth 17\Cost\Change Order\033 Pipe Pile Capacities\1404 PCN 033 2 Additional Pipe Pile Capacities 3.xls\Berap

Description	Labor		Total Qty.	Unit	Unit Price	Totals				
	No.	Hours				Labor	Equip.	Mat'ls	Subs.	Other
Revise WEAP Analysis for 36" Pipe Pile	1	1.00	1.00	LS	\$750.00				\$750.00	
Purchase Pipe Piles	1	1.00	1.00	LS	\$33,122.00			\$33,122.00		
<b>Load and Offload False Work and Pipe Piles - Fab False Work and Pipe Piles</b>										
SUPERINTENDENT	1	96.00	96.00	HR	\$100.00	\$9,600.00				
PILE DRIVER FOREMAN - MA	1	96.00	96.00	HR	\$48.70	\$4,675.20				
PILE DRIVER FOREMAN-MA-OT	1	12.00	12.00	HR	\$73.05	\$876.60				
PILE DRIVER FOREMAN-MA-DT				HR	\$73.05					
PILE DRIVER FOREMAN -FL	1	96.00	96.00	HR	\$33.00	\$3,168.00				
PILE DRIVER FOREMAN-FL-OT	1	12.00	12.00	HR	\$49.50	\$594.00				
PILE DRIVER FOREMAN-FL-DT				HR	\$37.80					
PILE DRIVER JOURNEYMAN	2	96.00	192.00	HR	\$25.20	\$4,838.40				
PILE DRIVER JOURNEYMAN-OT	2	12.00	24.00	HR	\$37.80	\$907.20				
PILE DRIVER JOURNEYMAN-DT				HR	\$37.95					
PILE DRIVER WELDER	2	96.00	192.00	HR	\$25.70	\$4,934.40				
PILE DRIVER WELDER-OT	2	12.00	24.00	HR	\$38.55	\$925.20				
PILE DRIVER WELDER-DT				HR	\$34.50					
OPERATOR CL-1	1	96.00	96.00	HR	\$33.58	\$3,223.68				
OPERATOR-FL-OT	1	12.00	12.00	HR	\$50.37	\$604.44				
OPERATOR-FL-DT				HR	\$50.37					
F250 Foreman Truck 2014	2	96.00	192.00	HR	\$29.79		\$5,719.68			
Link-Belt LS-248H	1	64.00	64.00	HR	\$249.99		\$15,999.36			
Mobro MB602	1	64.00	64.00	HR	\$105.68		\$6,763.64			
Mobro MB201	1	64.00	64.00	HR	\$93.35		\$5,974.55			
Roller Pipe Welding Table	1	12.00	12.00	DY	\$500.00		\$6,000.00			
Portable Welder 400amp	2	108.00	216.00	HR	\$8.36		\$1,805.76			
Weld Inspector	1	8.00	8.00	HR	\$95.00				\$760.00	
Paint Epoxy	1	1.00	1.00	LS	\$200.00		\$200.00			
Welding Supplies	1	1.00	1.00	LS	\$500.00		\$500.00			
Pipe Plugs Materials	1	1.00	1.00	LS	\$1,000.00		\$1,000.00			
Universal Eng Drill/Prep Pile for PDA	1	1.00	1.00	LS	\$550.00				\$550.00	
Tractor + Flat bed Trailer	1	16.00	16.00	LS	\$110.00				\$1,760.00	
<b>Install False Work and Drive Piles</b>										
SUPERINTENDENT	1	120.00	120.00	HR	\$100.00	\$12,000.00				
PILE DRIVER FOREMAN - MA	1	120.00	120.00	HR	\$48.70	\$5,844.00				
PILE DRIVER FOREMAN-MA-OT	1	14.00	14.00	HR	\$73.05	\$1,022.70				
PILE DRIVER FOREMAN-MA-DT				HR	\$73.05					
PILE DRIVER FOREMAN -FL	1	120.00	14.00	HR	\$33.00	\$462.00				
PILE DRIVER FOREMAN-FL-OT	1	14.00	14.00	HR	\$49.50	\$693.00				
PILE DRIVER FOREMAN-FL-DT				HR	\$37.80					
PILE DRIVER JOURNEYMAN	2	120.00	240.00	HR	\$25.20	\$6,048.00				
PILE DRIVER JOURNEYMAN-OT	2	14.00	28.00	HR	\$37.80	\$1,058.40				

CO # PCN 033  
Rev. # 1

PROJECT: POPB Berth 17  
OWNER: Port of Palm Beach Berth 17

Date: 3/7/2018

DESCRIPTION OF WORK: East Dolphin Two Additional Pipe Pile

K:\Jobs\LM1085\08-16-09-004 Port of Palm Beach Berth 17\Cost\Change Order\033 Pipe Pile Capacities\1404 PCN 033 2 Additional Pipe Pile Capacities 3.xls\Berap

Description	Labor		Total Qty.	Unit	Unit Price	Totals				
	No.	Hours				Labor	Equip.	Mat'ls	Subs.	Other
PILE DRIVER JOURNEYMAN-DT				HR	\$37.95					
PILE DRIVER WELDER	2	120.00	240.00	HR	\$25.70	\$6,168.00				
PILE DRIVER WELDER-OT	2	14.00	28.00	HR	\$38.55	\$1,079.40				
PILE DRIVER WELDER-DT				HR	\$34.50					
OPERATOR CL-1	1	120.00	120.00	HR	\$33.58	\$4,029.60				
OPERATOR-FL-OT	1	14.00	14.00	HR	\$50.37	\$705.18				
LABOR JOURNEYMAN	2	120.00	240.00	HR	\$15.75	\$3,780.00				
LABOR JOURNEYMAN OT	2	14.00	28.00	HR	\$23.63	\$661.50				
F250 Foreman Truck 2014	2	120.00	240.00	HR	\$29.79		\$7,149.60			
Link-Belt LS-248H	1	120.00	120.00	HR	\$249.99		\$29,998.80			
Mobro MB602	1	120.00	120.00	HR	\$105.68		\$12,681.82			
Mobro MB201	1	120.00	120.00	HR	\$93.35		\$11,202.27			
Portable Welder 400amp	2	120.00	240.00	HR	\$8.36		\$2,006.40			
HPSI 500 Hyd Vibratory Hammer	1	40.00	40.00	HR	\$141.89		\$5,675.60			
HPSI 500 Standby	1	88.00	88.00	HR	\$67.89		\$5,974.32			
Pileco D30-32	1	40.00	40.00	HR	\$119.30		\$4,772.00			
Pileco D30-32	1	88.00	88.00	HR	\$86.70		\$7,629.60			
Universal Eng Drill/Prep Pile for PDA	4	1.00	4.00	DY	\$1,500.00				\$6,000.00	
Universal Eng Drill PDA Report	1	1.00	1.00	EA	\$500.00				\$500.00	
Universal Foundation Certification	1	1.00	1.00	EA	\$1,000.00				\$1,000.00	
Manatee Observer	1	2.00	2.00	HR	\$750.00				\$1,500.00	
Divers Rough Cut Piles ST	1	16.00	16.00	HR	\$198.00				\$3,168.00	
<b>Fabricate and Weld Additional Form Chairs</b>										
PILE DRIVER FOREMAN -FL	1	8.00	8.00	HR	\$33.00	\$264.00				
PILE DRIVER WELDER	2	8.00	16.00	HR	\$25.70	\$411.20				
Portable Welder 400amp	1	8.00	8.00	HR	\$8.36		\$66.88			
Steel Plate Material	1	1.00	1.00	LS	\$1,000.00			\$1,000.00		
Divers Weld Additional Form Chairs ST	1	32.00	32.00	HR	\$198.00				\$6,336.00	
Divers Weld Additional Form Chairs ST OT	1	16.00	16.00	HR	\$256.00				\$4,096.00	
<b>Purchase Rebar Tie Spiral and Fab Bottom Plate for Piles</b>										
IRON WORKER FOREMAN	1	16.00	16.00	HR	\$25.30	\$404.80				
IRON WORKER JOURNEYMAN	2	16.00	32.00	HR	\$23.00	\$736.00				
Spiral Galvanized Rebar Cage	1	1.00	1.00	LS	\$2,000.00			\$2,000.00		
Steel Bottom Plate	1	1.00	1.00	LS	\$500.00			\$500.00		
Portable Welder 400amp	1	16.00	16.00	HR	\$8.36		\$133.76			
EFCO Redesign	1	1.00	1.00	LS	\$1,000.00			\$2,000.00		
FGG Redesign	1	1.00	1.00	LS	\$2,000.00				\$2,000.00	

CO # PCN 033  
 Rev. # 1

PROJECT: POPB Berth 17  
 OWNER: Port of Palm Beach Berth 17

Date: 3/7/2018

DESCRIPTION OF WORK: East Dolphin Two Additional Pipe Pile

K:\Jobs\LM1085\08 16-00-004 Port of Palm Beach Berth 17\Cost\Change Order\033 Pipe Pile Capacities\1604 PCN 033 2 Additional Pipe Pile Capacities 3.xls\Berap

Description	Labor		Total Qty.	Unit	Unit Price	Totals				
	No.	Hours				Labor	Equip.	Mat'ls	Subs.	Other
<b>Repair Epoxy and Install Denso Tape and Sleeve 2 Piles</b>										
Divers Wrap and Install Denso Tape	1	32.00	32.00	HR	\$198.00				\$6,336.00	
Denso Tape & Sleeve	1	1.00	1.00	LS	\$1,200.00			\$1,200.00		
Epoxy Coating Repair Material	1	1.00	1.00	LS	\$600.00			\$600.00		
<b>TOTALS</b>						<b>\$79,714.90</b>	<b>\$129,554.03</b>	<b>\$42,122.00</b>	<b>\$34,756.00</b>	





**RECAPITULATION  
CHART**

Date: March 5, 2018

Est. #	PCN 033
Rev. #	

**East Dolphin Two Additional Pipe Pile**

1	Labor (Direct Costs)		<u>\$79,714.90</u>
2	Materials		<u>\$42,122.00</u>
3	Equipment		<u>\$105,502.51</u>
<b>3A</b>	<b>Subtotal (Labor + Materials + Equipment)</b>		<u><b>\$227,339.41</b></u>
4	Overhead (0% of Line 3A)		
5	Insurance and Payroll Taxes		<u>9342.59</u>
5A	Workers Compensation		<u>\$4,655.35</u>
6	Health, Welfare & Benefits on Labor		<u><b>\$23,915.56</b></u>
<b>6A</b>	<b>Subtotal (Lines 3A+4+5+5A+6)</b>		<u><b>\$265,252.91</b></u>
7	Profit % of Line 6A	15.00%	<u>\$39,787.94</u>
7A	Subtotal (Lines 6A+7)		<u>\$305,040.85</u>
8	Subcontractor Total		<u><b>\$34,756.00</b></u>
9	5% of Line 8		<u>\$1,737.80</u>
<b>9A</b>	<b>Subtotal (Lines 7A+8+9)</b>		<u><b>\$341,534.65</b></u>
<b>10</b>	<b>Bond 1% of Line 9A</b>		<u><b>\$3,415.35</b></u>
<b>11</b>	<b>Grand Total</b>		<u><b>\$344,949.99</b></u>

UNIT PRICE                      QTY                                      LS



Insurance & Payroll Taxes	
Federal FICA	7.31%
Federal Unemployment (FUTA)	0.92%
State Unemployment (SUTA)	3.49%
State Health	
Workers Compensation	5.84%
<b>TOTAL</b>	<b>17.56%</b>

Health & Welfare and Other Benefits			
Trade	Hours	Rate	Total
FL - Laborer	268.00	\$6.19	\$1,658.92
MA - Laborer Z2		\$21.70	
MA - Laborer Z3		\$18.53	
MA-Pile Driver	242.00	\$34.38	\$8,319.96
FL - Iron Worker		\$12.09	
FL1809-Pile Dr/Carp	1128.00	\$10.36	\$11,686.08
FL - Operator	242.00	\$9.30	\$2,250.60
MA - Operator		\$26.76	
MA - Operator O/T		\$1.50	
		\$10.36	
		\$26.43	
Equipment Hours	1464.00		
<b>TOTAL</b>	<b>1880.00</b>		<b>\$23,915.56</b>

CO # PCN 033  
 Rev. # 0

PROJECT: POPB Berth 17  
 OWNER: Port of Palm Beach Berth 17

Date: 3/5/2018

DESCRIPTION OF WORK: East Dolphin Two Additional Pipe Pile

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Description	Labor		Total Qty.	Unit	Unit Price	Totals				
	No.	Hours				Labor	Equip.	Mat'ls	Subs.	Other
Revise WEAP Analysis for 36" Pipe Pile	1	1.00	1.00	LS	\$750.00				\$750.00	
Purchase Pipe Piles	1	1.00	1.00	LS	\$33,122.00			\$33,122.00		
<b>Load and Offload False Work and Pipe Piles - Fab False Work and Pipe Piles</b>										
SUPERINTENDENT	1	96.00	96.00	HR	\$100.00	\$9,600.00				
PILE DRIVER FOREMAN - MA	1	96.00	96.00	HR	\$48.70	\$4,675.20				
PILE DRIVER FOREMAN-MA-OT	1	12.00	12.00	HR	\$73.05	\$876.60				
PILE DRIVER FOREMAN-MA-DT				HR	\$73.05					
PILE DRIVER FOREMAN -FL	1	96.00	96.00	HR	\$33.00	\$3,168.00				
PILE DRIVER FOREMAN-FL-OT	1	12.00	12.00	HR	\$49.50	\$594.00				
PILE DRIVER FOREMAN-FL-DT				HR	\$37.80					
PILE DRIVER JOURNEYMAN	2	96.00	192.00	HR	\$25.20	\$4,838.40				
PILE DRIVER JOURNEYMAN-OT	2	12.00	24.00	HR	\$37.80	\$907.20				
PILE DRIVER JOURNEYMAN-DT				HR	\$37.95					
PILE DRIVER WELDER	2	96.00	192.00	HR	\$25.70	\$4,934.40				
PILE DRIVER WELDER-OT	2	12.00	24.00	HR	\$38.55	\$925.20				
PILE DRIVER WELDER-DT				HR	\$34.50					
OPERATOR CL-1	1	96.00	96.00	HR	\$33.58	\$3,223.68				
OPERATOR-FL-OT	1	12.00	12.00	HR	\$50.37	\$604.44				
OPERATOR-FL-DT				HR	\$50.37					
F250 Foreman Truck 2014	2	96.00	192.00	HR	\$29.79		\$5,719.68			
Link-Belt LS-248H	1	64.00	64.00	HR	\$249.99		\$15,999.36			
Mobro MB602	1	64.00	64.00	HR	\$105.68		\$6,763.64			
Mobro MB201	1	64.00	64.00	HR	\$93.35		\$5,974.55			
Roller Pipe Welding Table	1	12.00	12.00	DY	\$500.00		\$6,000.00			
Portable Welder 400amp	2	108.00	216.00	HR	\$8.36		\$1,805.76			
Weld Inspector	1	8.00	8.00	HR	\$95.00				\$760.00	
Paint Epoxy	1	1.00	1.00	LS	\$200.00		\$200.00			
Welding Supplies	1	1.00	1.00	LS	\$500.00		\$500.00			
Pipe Plugs Materials	1	1.00	1.00	LS	\$1,000.00		\$1,000.00			
Universal Eng Drill/Prep Pile for PDA	1	1.00	1.00	LS	\$550.00				\$550.00	
Tractor + Flat bed Trailer	1	16.00	16.00	LS	\$110.00				\$1,760.00	
<b>Install False Work and Drive Piles</b>										
SUPERINTENDENT	1	120.00	120.00	HR	\$100.00	\$12,000.00				
PILE DRIVER FOREMAN - MA	1	120.00	120.00	HR	\$48.70	\$5,844.00				
PILE DRIVER FOREMAN-MA-OT	1	14.00	14.00	HR	\$73.05	\$1,022.70				
PILE DRIVER FOREMAN-MA-DT				HR	\$73.05					
PILE DRIVER FOREMAN -FL	1	120.00	14.00	HR	\$33.00	\$462.00				
PILE DRIVER FOREMAN-FL-OT	1	14.00	14.00	HR	\$49.50	\$693.00				
PILE DRIVER FOREMAN-FL-DT				HR	\$37.80					

CO # PCN 033  
 Rev. # 0

PROJECT: POPB Berth 17  
 OWNER: Port of Palm Beach Berth 17

Date: 3/5/2018

DESCRIPTION OF WORK: East Dolphin Two Additional Pipe Pile

C:\Users\AJ\OneDrive\Documents\Port of Palm Beach Berth 17\Drawings\Change Orders\033 Pipe Pile Capacities\1504 PCN 033 2 Additional Pipe Pile Capacities 2.xls\Recap

Description	Labor		Total Qty.	Unit	Unit Price	Totals				
	No.	Hours				Labor	Equip.	Mat'ls	Subs.	Other
PILE DRIVER JOURNEYMAN	2	120.00	240.00	HR	\$25.20	\$6,048.00				
PILE DRIVER JOURNEYMAN-OT	2	14.00	28.00	HR	\$37.80	\$1,058.40				
PILE DRIVER JOURNEYMAN-DT				HR	\$37.95					
PILE DRIVER WELDER	2	120.00	240.00	HR	\$25.70	\$6,168.00				
PILE DRIVER WELDER-OT	2	14.00	28.00	HR	\$38.55	\$1,079.40				
PILE DRIVER WELDER-DT				HR	\$34.50					
OPERATOR CL-1	1	120.00	120.00	HR	\$33.58	\$4,029.60				
OPERATOR-FL-OT	1	14.00	14.00	HR	\$50.37	\$705.18				
LABOR JOURNEYMAN	2	120.00	240.00	HR	\$15.75	\$3,780.00				
LABOR JOURNEYMAN OT	2	14.00	28.00	HR	\$23.63	\$661.50				
F250 Foreman Truck 2014	2	120.00	240.00	HR	\$29.79		\$7,149.60			
Link-Belt LS-248H	1	120.00	120.00	HR	\$249.99		\$29,998.80			
Mobro MB602	1	120.00	120.00	HR	\$105.68		\$12,681.82			
Mobro MB201	1	120.00	120.00	HR	\$93.35		\$11,202.27			
Portable Welder 400amp	2	120.00	240.00	HR	\$8.36		\$2,006.40			
Universal Eng Drill/Prep Pile for PDA	4	1.00	4.00	DY	\$1,500.00				\$6,000.00	
Universal Eng Drill PDA Report	1	1.00	1.00	EA	\$500.00				\$500.00	
Universal Foundation Certification	1	1.00	1.00	EA	\$1,000.00				\$1,000.00	
Manatee Observer	1	2.00	2.00	HR	\$750.00				\$1,500.00	
Divers Rough Cut Piles ST	1	16.00	16.00	HR	\$198.00				\$3,168.00	
<b>Fabricate and Weld Additional Form Chairs</b>										
PILE DRIVER FOREMAN -FL	1	8.00	8.00	HR	\$33.00	\$264.00				
PILE DRIVER WELDER	2	8.00	16.00	HR	\$25.70	\$411.20				
Portable Welder 400amp	1	8.00	8.00	HR	\$8.36		\$66.88			
Steel Plate Material	1	1.00	1.00	LS	\$1,000.00			\$1,000.00		
Divers Weld Additional Form Chairs ST	1	32.00	32.00	HR	\$198.00				\$6,336.00	
Divers Weld Additional Form Chairs ST OT	1	16.00	16.00	HR	\$256.00				\$4,096.00	
<b>Purchase Rebar Tie Spiral and Fab Bottom Plate for Piles</b>										
IRON WORKER FOREMAN	1	16.00	16.00	HR	\$25.30	\$404.80				
IRON WORKER JOURNEYMAN	2	16.00	32.00	HR	\$23.00	\$736.00				
Spiral Galvanized Rebar Cage	1	1.00	1.00	LS	\$2,000.00			\$2,000.00		
Steel Bottom Plate	1	1.00	1.00	LS	\$500.00			\$500.00		
Portable Welder 400amp	1	16.00	16.00	HR	\$8.36		\$133.76			
EFCO Redesign	1	1.00	1.00	LS	\$1,000.00			\$2,000.00		
FGG Redesign	1	1.00	1.00	LS	\$2,000.00				\$2,000.00	

CO # PCN 033  
 Rev. # 0

PROJECT: POPB Berth 17  
 OWNER: Port of Palm Beach Berth 17

Date: 3/5/2018

DESCRIPTION OF WORK: East Dolphin Two Additional Pipe Pile

K:\Jobs\M\_OB\08 18-00-004 Port of Palm Beach Berth 17\Cost\Change Orders\033 Pipe Pile Capacities\1604 PCN 033 2 Additional Pipe Pile Capacities 2.xls\Recap

Description	Labor		Total Qty.	Unit	Unit Price	Totals				
	No.	Hours				Labor	Equip.	Mat'ls	Subs.	Other
<b>Repair Epoxy and Install Denso Tape and Sleeve 2 Piles</b>										
Divers Wrap and Install Denso Tape	1	32.00	32.00	HR	\$198.00				\$6,336.00	
Denso Tape & Sleeve	1	1.00	1.00	LS	\$1,200.00			\$1,200.00		
Epoxy Coating Repair Material	1	1.00	1.00	LS	\$600.00			\$600.00		
<b>TOTALS</b>						<b>\$79,714.90</b>	<b>\$105,502.51</b>	<b>\$42,122.00</b>	<b>\$34,756.00</b>	

**\*\*\* QUOTE ORDER \*\*\***

National Tool Supply  
 a Division of Colony Hardware  
 5725 W. Hallandale Beach Blvd  
 West Park, FL 33023  
 Phone: 954-963-7222 Fax: 954-987-1204

Quote #: 290869  
 Quoted: 12/21/17  
 Expires: 01/20/18  
 Branch: 39

<b>SOLD TO:</b> N1974 LM HEAVY CIVIL CONST. LLC 100 HANCOCK ST. SUITE 901  QUINCY, MA 02171	<b>SHIP TO:</b> 2 LM HEAVY CIVIL CONST. LLC PORT OF PALM BCH-BERTH 17 270 MARTIN LUTHER KING DR RIVIERA BEACH, FL 33404
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Via: OUR TRUCK                      Taken By: JGC                      Cust PO#:  
 Quoted To: PARICK / DAVIDE      Sls Rep : 390                      Terms : NET 30 DAYS  
 Site Phone:                              Job No. : PORT OF PALM BEACH

LINE	ITEM / DESCRIPTION	CATALOG	QTY	UM	UNIT PRICE	PC	EXTENSION
001	SEASHIELD2000HD TEMPORARY		352	EA	17.99	EA	6332.48
002	FREIGHT COMMON CARRIER ABOVE SYSTEM INCLUDES: SEASHIELD MARINE TAPE (55% OVERLAP)- 5 CASES (6" X 33' 12ROLLS/CASE) SEASHIELD DENSO PASTES105 2 CASES (4 X 5.5 LB. TUBS/CASE) SEASHIELD 2000HD OUTERCOVERS (80 MIL HPDE):6 EA. 332' DIA. X 7' 2000HD 316SS BOLTS (60 EA),NUTS (60 EA),WASHERS (120 EA.)INCL 10% EXTRA		1	EA	375.00	EA	375.00
NOTE: DELIVERY CHARGES (IF ANY) ARE NOT INCLUDED.							
SUB TOTAL							6707.48
SALES TAX							443.27
-----							-----
TOTAL							7150.75

PRINTED: 12/21/17 3:47 PM USER ID: JGC

QUOTE EXPIRES: 01/20/18

PIPE DIAMETER 36"  
 PIPE CIRCUMFERENCE =  $113.10'' / 12 = 9.42 LF$   
 $10' (9.42') = 94.20 SF.$   
 ROLL = 16.50 SF.  
 ACTUAL DUE TO OVERLAP = 7.43 SF.  
 ROLLS #  $94.20 / 7.43 = 12.68$  ROLLS  
 20% WASTE  $1.2(12.68) = 15$  ROLLS

$7150.75 / 6 = 1,191.79$



**ECOLOGICAL ASSOCIATES, INC.**  
**P.O. BOX 405**  
**JENSEN BEACH, FLORIDA 34958**

**COST PROPOSAL – December 7, 2017**

**PROJECT NAME:** Port of Palm Beach Manatee Observer  
 (EAI Project No. 17-1512)

**CLIENT:** Mr. Ivey Spivey  
 LM Heavy Civil Construction, LLC  
 Phone: (863) 697-1646  
 Email: iveyh66@gmail.com

**PROJECT DESCRIPTION:** Provision of an experienced manatee observer to meet permit requirements during construction of Berth #17 at the Port of Palm Beach in Palm Beach County, Florida. Based on information provided by LM Heavy Civil Construction, LLC repairs are ongoing and will continue five to six days per week, Monday-Saturday for approximately 1 to 2 months, barring weather or mechanical delays. EAI will provide one experienced manatee observer for up to 10 daylight hours each day while in or on-water operations are taking place. The observer will be positioned on either the vessel performing the repairs, a stationary land-based platform, or on another vessel stationed in the vicinity of the work area, as mutually agreed upon by LM Heavy Civil Construction, LLC and EAI. Costs for services without the use of an EAI observation vessel are presented below.

**PROJECT DURATION:** Up to two months, beginning on December 11, 2017.

**MOBILIZATION:** EAI has personnel available to commence manatee observing beginning December 11, 2017 if required and terms are acceptable.

**PROJECT COSTS:** All tasks shall be performed at the costs indicated below, inclusive of all labor, materials, and travel.

Task	Description	Charge
1	<b>Manatee Observer without EAI vessel<sup>1</sup></b>	
	Full Day (daily rate) <sup>2</sup>	\$750.00
	Partial Day (daily rate) <sup>3</sup>	\$500.00

<sup>1</sup>Rates apply to each day that an observer must be available for the project. No charges will be assessed on days when EAI is advised at least 24 hours in advance that the construction crew will not be working and no observers will be needed.

<sup>2</sup>Full days include days when the manatee observer is on site for more than 4 hours, up to

December 7, 2017

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10 hours.

<sup>3</sup>Partial days include days when the manatee observer is on site for less than 4 hours and days when EAI does not receive at least 24 hour advance notification that no observers will be needed.

**PRICES FIRM:** The prices quoted above are offered for a period of 30 days. Once an agreement is entered into with EAI for the services described herein, costs will remain fixed through project completion.

**BILLING:** Charges for services will be billed monthly for the duration of the project.

**TERMS:** Net 30 days.

**EARLY TERMINATION:** EAI's services may be terminated at any time by providing seven (7) days written notice. There is no penalty for early termination. Only charges accrued to the effective date of termination will be assessed.

**LATE PAYMENT:** Invoices shall be considered **PAST DUE** if payment is not received by EAI within 30 calendar days of the invoice date. Any unpaid balances for other than disputed charges will draw interest at the rate of one and one-half percent (1½ %) per month commencing 30 days after the date of invoice.

**DISPUTED CHARGES:** EAI shall be notified in writing of any disputed amount within 10 calendar days after receipt of invoice; otherwise all invoice charges will be considered acceptable and correct.

**ENTITLEMENT:** EAI is entitled to all reasonable costs, including attorney's fees, associated with the collection of past due charges.

Emailed 12/28/17

86078



# B.M.J Towing

414 S. Parrott Avenue, Suite A  
Okeechobee, Florida 34974  
(863) 763-2845



AUTH. BY	Ivy Spivy		START TIME	END TIME	AM PM	DATE
BREAKDOWN VEHICLE	HAMMER/Power Psck/		YEAR	SAW'S		COLOR
UNIT PROBLEM	Transport		MILEAGE			LOADED
BREAKDOWN LOC.	L-28 Canal m/m 425					
FINAL DESTINATION	Port of BALM BEACH					
TOW TRUCK #	88	DRIVER	Mitch ✓			
ENDING MILEAGE	LICENSE NUMBER				STATE	
BEGINNING MILEAGE	V.I.N.					
TOTAL MILEAGE	PO#				RO#	
PAYER	LMH Construction				Keys	
STREET					Yes No	
CITY - ST - ZIP						
OWNER'S NAME						
ADDRESS						
CREDIT CARD			EXP. DATE	APPROVAL NO		

# TOW VEHS	# MEN	# RECOVERY HRS
HOOKUP	STOR	@
MILES 8 HR @ 110.00	MISC	
ROAD SERVICE	ADMIN. FEE	
RECOVERY	PAID OUT	
LABOR	SUB TOTAL	➔
WAITING TIME	TAX	
2ND TOW	TOTAL	➔ 880.00

SPECIAL COMMENTS

754-202-7371

**FLORIDA PIPE & STEEL, INC.**

6903 VISTA PARKWAY NORTH SUITE 1  
WEST PALM BEACH, FL. 33411  
561 642-1811 Fax 561 642-7431

**Quote 18988**

**2/21/2018**

LMHCI MB (617) 845-8061

**LM HEAVY CIVIL CONSTRUCTION, LLC**  
**100 HANCOCK ST SUITE 901**  
**QUINCY, MA**  
**02171-**

Ship VIA: Truck PO # Terms: TBD Sales Person: MB

FOB: Port of Palm Beach Job Name Port of Palm Beach

Quantity	Units	Description	Price	Amount
260	ft	36"OD x .625w Surplus steel Pipe x 65'	\$120.00	\$31,200.00

Sub Total \$31,200.00  
Tax \$1,922.00  
Total with Tax \$33,122.00

**Comments:**

Confirming to John-

This is for 4 pieces of 36"OD x .625w Surplus steel pipe fabricated into 65' lengths. Pipe will have a FBE / ARO coating on OD. 3-4 midwelds. All welds will be shop sub arch with full penetration weld on the ID and OD by certified welder.

Pipe will have a minimum yield of 70,000 ksi

Please allow 3 weeks to fabricate and deliver.

Price includes delivery to Riviera Beach, FL. Pipe is subject to prior sale.

Thank you for the opportunity to quote.....Matt Bower

A1604

JAN 08 2013



5561 Florida Mining Boulevard South, Jacksonville, FL 32257 • Phone: 904.296.0757 • Fax: 904.296.0748

**INVOICE**

Remit To: P.O. Box 25316, Tampa, FL 33622-5316

November 30, 2017

Project No: 0950.1700029.0000

Invoice No: 00283768

LM Heavy Civil Construction  
100 Hancock Street  
Suite 901  
Quincy, MA 02171

**Terms: Net 30 days**  
We accept American Express, Visa,  
Master Card, Discover, and ACH

Project 0950.1700029.0000 Port of Palm Beach Berth 17 PDA - Rivier

Location:

Professional Services through November 30, 2017

**Unit Billing**

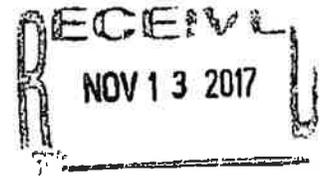
Foundation Certifications per Bent (Inner and Middle Dolphin)	2.0 Each @ 500.00	* 1,000.00	
PDA Data Analysis & Report per pile	12.0 Each @ 500.00	* 6,000.00	
PDA Testing Day Rate (10/31, 11/2, 11/3, 11/4, 11/5, 11/6, 11/7, 11/8, 11/9, 11/10, 11/11, 11/12, 11/13, 11/14, 11/15, 11/16, 11/17, 11/21)	13.0 Days @ 1,500.00	* 19,500.00	
Pile Inspector - (11/4, 11/5, 11/7, 11/8)	5.0 Days @ 1,500.00	7,500.00	
WEAP and Report New Hammer (9/13, 10/25)	4.0 <sup>Day</sup> hours @ 550.00	* 2,200.00	
	2.0 each @ 750.00	1,500.00	
<b>Total Units</b>		<b>37,700.00</b>	<b>37,700.00</b>
	<b>Total this Invoice</b>		<b>\$37,700.00</b>

Thank you for your business!

Please contact Josh Adams with any invoice questions - 904-296-0757



A-1017



**Service Invoice**

**Bill To:** LM Heavy Civil Construction, LLC  
 100 Hancock Street, Suite 901  
 Quincy, Massachusetts - 02171, United States

Invoice #	Service Period Date
10094	10/31/2017

**Attention:** Philippe Hewes (accounts payable@lmheavycivil.com)

Invoice Date
11/09/2017

Due Date
12/10/2017

P.O. Number	Terms	TSF Project / Job #	Project / Job Name
1604/PO 021946	Net 30	7112-16-203	Port of Palm Beach-Berth 17 and Paving

**Testing**

Report No	Report Date	Description	Quantity	Rate	Amount (\$)
<i>Port of Palm Beach-Berth 17 and Paving</i>					
307	10/02/2017	Senior Technician-Sample/Cylinders Pick-up - hour	1	65.00	65.00
308	10/03/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
309	10/04/2017	Senior Technician-Sample/Cylinders Pick-up - hour	1	65.00	65.00
310	10/06/2017	Nuclear Density Test - hour (minimum 2)	2	50.00	100.00
311	10/06/2017	Engineering Technician/Soils & Concrete - hour	2	65.00	130.00
312	10/06/2017	Nuclear Density Test - hour (minimum 2)	2	50.00	100.00
313	10/06/2017	Engineering Technician/Soils & Concrete - hour	0.5	65.00	32.50
314	10/09/2017	Nuclear Density Test - hour (minimum 2)	2	50.00	100.00
315	10/09/2017	Engineering Technician/Soils & Concrete - hour	1	65.00	65.00
316	10/13/2017	Mortar Compressive Strength Test - hour	2	50.00	100.00
317	10/14/2017	Mortar Compressive Strength Test - hour	2	50.00	100.00
318	10/16/2017	Mortar Compressive Strength Test - hour	2	50.00	100.00
319	10/17/2017	Mortar Compressive Strength Test - hour	2	50.00	100.00
321	10/19/2017	Ultrasonic Weld Testing - hour	5.5	95.00	522.50
322	10/20/2017	Ultrasonic Weld Testing - hour	5	* 95.00	475.00
323	10/21/2017	Ultrasonic Weld Testing - hour (OT)	4.5	142.50	641.25
324	10/23/2017	Ultrasonic Weld Testing - hour	4	95.00	380.00
325	10/28/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
326	10/28/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
327	10/28/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00

Reports 332 are not existing in sequence and have been deleted from the system.

Work Performed By : Tierra South Florida, Inc. - West Palm Beach, Florida - Phone: (561) 687-8539

**REMIT TO ADDRESS:**  
 Tierra South Florida, Inc.  
 P.O. Box 1734  
 Oldsmar, FL 34677



**Service Invoice**

**Bill To:** LM Heavy Civil Construction, LLC  
 100 Hancock Street, Suite 901  
 Quincy, Massachusetts - 02171, United States

<b>Invoice #</b>	<b>Service Period Date</b>
10094	10/31/2017

**Attention:** Philippe Hewes (accountspayable@lmheavycivil.com)

<b>Invoice Date</b>
11/09/2017

<b>Due Date</b>
12/10/2017

P.O. Number	Terms	TSF Project / Job #	Project / Job Name
1604/PO 021946	Net 30	7112-16-203	Port of Palm Beach-Berth 17 and Paving

Report No	Report Date	Description	Quantity	Rate	Amount (\$)
328	10/28/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
329	10/28/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
330	10/28/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
331	10/28/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
333	10/28/2017	Engineering Technician/Soils & Concrete - hour	8	65.00	520.00
334	10/28/2017	Engineering Technician/Soils & Concrete - hour	7.25	65.00	471.25
335	10/30/2017	Senior Technician-Sample/Cylinders Pick-up - hour	1	65.00	65.00
336	10/26/2017	Ultrasonic Weld Testing - hour	4.5	95.00	427.50
337	10/28/2017	Ultrasonic Weld Testing - hour (OT)	5	142.50	712.50
338	10/31/2017	Engineering Technician/Soils & Concrete - hour	7	65.00	455.00
339	10/31/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
340	10/31/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
341	10/31/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
342	10/31/2017	Concrete Compressive Strength Test - hour	2	50.00	100.00
344	10/31/2017	Ultrasonic Weld Testing - hour	4	95.00	380.00

**Inspections**

Reports 332 are not existing in sequence and have been deleted from the system.

**Work Performed By : Tierra South Florida, Inc. - West Palm Beach, Florida - Phone: (561) 687-8539**

**REMIT TO ADDRESS:**  
 Tierra South Florida, Inc.  
 P.O. Box 1734  
 Oldsmar, FL 34677

**Invoice**

#1604

**MOBRO Marine, Inc.**

GREEN COVE SPRINGS  
 MOBRO MARINE  
 606 LEONARD C TAYLOR PKWY  
 GREEN COVE SPRINGS, FL 32043  
 904-284-9670

REMIT TO: MOBRO MARINE, INC.  
 P.O. BOX 986  
 GREEN COVE SPRINGS, FL 32043  
 904-284-9670

INVOICE #	51030114
LOCATION	51
DATE	10/27/17 08:42:24
PAGE	1 OF 2

**BILL TO**

061990  
 LM HEAVY CIVIL CONSTRUCTION  
 100 HANCOCK STREET  
 SUITE 901  
 QUINCY, MA 021171

**SHIP TO**

LM HEAVY CIVIL CONSTRUCTION  
 RIVIERA BEACH, FL  
 786-590-1260

**RECEIVED**  
 OCT 31 2017

MAKE		MODEL		SERIAL NUMBER	
ORDER NUMBER 51015347	ORDER DATE 09/27/17	SALES REP 555 /	CUSTOMER P/O NUMBER 1604-24810	PAYMENT TERMS NET 30	
JOB NUMBER	WRITTEN BY TRICIA KRAMER		CONTACT PAUL SENA	SHIP VIA TUGBOAT	

PRODUCT / DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
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<b>BARG 128X32X9 RNT</b>	1	1	0	12,500.00	MO	12,500.00
BARGE 128X32X9 From 10/26/17 To 11/25/17 Material Still On Rent 1 MO 12500.00 Rental Unit#: 100602 Serial #: MB 602 (2) 60' X 20" SPUDS (2) SPUD PINS (2) 32' X 7' STEEL RAMPS CONCRETE DECK / BINWALLS (6) SOLAR LIGHTS W/STANDS						

<b>PULL H-25 RNT</b>	1	1	0	2,500.00	MO	2,500.00
PULLMASTER H-25 WINCH SINGLE DRUM HYD From 10/26/17 To 11/25/17 Material Still On Rent 1 MO 2500.00 Rental Unit#: 3904094 Serial #: 114094						

<b>PULL H-25 RNT</b>	1	1	0	2,500.00	MO	2,500.00
PULLMASTER H-25 WINCH SINGLE DRUM HYD From 10/26/17 To 11/25/17						

Continued

**Invoice**

**MOBRO Marine, Inc.**

GREEN COVE SPRINGS  
 MOBRO MARINE  
 606 LEONARD C TAYLOR PKWY  
 GREEN COVE SPRINGS, FL 32043  
 904-284-9670

REMIT TO: MOBRO MARINE, INC.  
 P.O. BOX 986  
 GREEN COVE SPRINGS, FL 32043  
 904-284-9670

INVOICE #	51030114
LOCATION	51
DATE	10/27/17 08:42:24
PAGE	2 OF 2

**BILL TO**

061990  
 LM HEAVY CIVIL CONSTRUCTION  
 100 HANCOCK STREET  
 SUITE 901  
 QUINCY, MA 021171

**SHIP TO**

LM HEAVY CIVIL CONSTRUCTION  
 RIVIERA BEACH, FL  
 786-590-1260

MAKE		MODEL		SERIAL NUMBER
ORDER NUMBER	ORDER DATE	SALES REP	CUSTOMER P/O NUMBER	PAYMENT TERMS
51015347	09/27/17	555 /	1604-24810	NET 30
JOB NUMBER	WRITTEN BY		CONTACT	SHIP VIA
	TRICIA KRAMER		PAUL SENA	TUGBOAT

PRODUCT / DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
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Material Still On Rent

1 MO 2500.00

Rental Unit#: 3903651 Serial #: 113651

DATE RECEIVED	12/13/17
PO NUMBER	024744
JOB NUMBER:	1604
COST CODE:	500010
APPROVED BY:	<i>Jeff Carson</i>

**A SERVICE CHARGE 1-1/2% PER MONTH WILL BE CHARGED ON ALL PAST DUE ACCOUNTS.**

MERCHANDISE TOTAL	HANDLING	MISC CHARGE	TAX	FREIGHT	DEPOSIT AMOUNT	DEPOSIT APPLIED	INVOICE TOTAL
17,500.00	0.00	0.00	1,100.00	IN 0.00 OUT 0.00	0.00	0.00	18,600.00

*18,600 / 176 = 105.68*

A1604

# MOBRO Marine, Inc.

GREEN COVE SPRINGS  
MOBRO MARINE  
606 LEONARD C TAYLOR PKWY  
GREEN COVE SPRINGS, FL 32043  
904-284-9670

REMIT TO: MOBRO MARINE, INC.  
P.O. BOX 986  
GREEN COVE SPRINGS, FL 32043  
904-284-9670

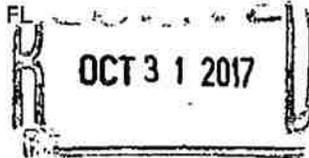
INVOICE #	51030113
LOCATION	51
DATE	10/27/17 08:42:24
PAGE	1 OF 2

**BILL TO**

061990  
LM HEAVY CIVIL CONSTRUCTION  
100 HANCOCK STREET  
SUITE 901  
QUINCY, MA 021171

**SHIP TO**

LM HEAVY CIVIL CONSTRUCTION  
RIVIERA BEACH, FL  
786-590-1260



MAKE			MODEL		SERIAL NUMBER	
ORDER NUMBER	ORDER DATE	SALES REP	CUSTOMER P/O NUMBER		PAYMENT TERMS	
51015346	09/27/17	555 /	1604-24810		NET 30	
JOB NUMBER	WRITTEN BY		CONTACT		SHIP VIA	
	TRICIA KRAMER		PAUL SENA		TUGBOAT	

PRODUCT / DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
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<b>BARG 120X50X8 RNT</b>	1	1	0	10,500.00	MO	10,500.00
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BARGE 120X50X8

From 10/26/17 To 11/25/17

Material Still On Rent

1 MO 10500.00

Rental Unit#: 100201 Serial #: MOBRO 201

(2) 60' SPUDS

(2) SPUD PINS

(22) 12' X 5' X 1' MATS

(6) SOLAR LIGHTS W/STANDS

<b>AMER 9260 RNT</b>	1	1	0	21,000.00	MO	21,000.00
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AMERICAN 9260

CRAWLER CRANE

From 10/26/17 To 11/25/17

Material Still On Rent

1 MO 21000.00

Rental Unit#: 3915794 Serial #: GS15794

(1) ANVIL BUCKET

(1) HEADACHE BALL

<b>CLYDE FRAME 6 WINCH RNT</b>	1	1	0	5,000.00	MO	5,000.00
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CLYDE FRAME 6 WINCH

From 10/26/17 To 11/25/17

Continued

# Invoice

## MOBRO Marine, Inc.

GREEN COVE SPRINGS  
 MOBRO MARINE  
 606 LEONARD C TAYLOR PKWY  
 GREEN COVE SPRINGS, FL 32043  
 904-284-9670

REMIT TO: MOBRO MARINE, INC.  
 P.O. BOX 986  
 GREEN COVE SPRINGS, FL 32043  
 904-284-9670

INVOICE #	51030113
LOCATION	51
DATE	10/27/17 08:42:24
PAGE	2 OF 2

**BILL TO**

061990  
 LM HEAVY CIVIL CONSTRUCTION  
 100 HANCOCK STREET  
 SUITE 901  
 QUINCY, MA 021171

**SHIP TO**

LM HEAVY CIVIL CONSTRUCTION  
 RIVIERA BEACH, FL  
 786-590-1260

MAKE		MODEL		SERIAL NUMBER	
ORDER NUMBER	ORDER DATE	SALES REP	CUSTOMER P/O NUMBER	PAYMENT TERMS	
51015346	09/27/17	555 /	1604-24810	NET 30	
JOB NUMBER	WRITTEN BY		CONTACT	SHIP VIA	
	TRICIA KRAMER		PAUL SENA	TUGBOAT	

PRODUCT / DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
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Material Still On Rent

1 MO 5000.00

Rental Unit#: 39983376 Serial #: 5183376

DATE RECEIVED:	12/13/17
PO NUMBER:	024744
JOB NUMBER:	1604
COST CODE:	500010
APPROVED BY:	<i>Jeff Conroy</i>

**A SERVICE CHARGE 1-1/2% PER MONTH WILL BE CHARGED ON ALL PAST DUE ACCOUNTS.**

MERCHANDISE TOTAL	HANDLING	MISC CHARGE	TAX	FREIGHT	DEPOSIT AMOUNT	DEPOSIT APPLIED	INVOICE TOTAL
36,500.00	0.00	0.00	2,240.00	IN 0.00 OUT 0.00	0.00	0.00	38,740.00
<i>15,500</i>			<i>930</i>				<i>16,430</i>
<p><i>16,430 / 176 = 93.35</i></p>							



Underwater Engineering Services, Inc.  
UESI FCIM# 52-2405175

3306 Enterprise Road, Ste. 103  
Fort Pierce, Florida 34982  
Tel: (772) 337-3116  
Fax: (772) 337-0294

Steve Harrington  
LM Heavy Civil Construction, LLC  
4440 PGA Boulevard  
Suite 600  
Palm Beach Gardens, FL 33410

January 10, 2018  
Project No: COM-2017297.00  
Invoice No: 7297-01  
Due Date: February 9, 2018

Project COM-2017297.00 LM Heavy Civil Dive Support Port of Palm Beach

Provide underwater support as needed

Professional Services from December 20, 2017 to December 30, 2017

**Reimbursable Expenses**

Travel

12/20/2017	Suntrust Bankcard, N.A.	JL ExxonMobil Fuel	11.00
12/20/2017	Suntrust Bankcard, N.A.	JL ExxonMobil Fuel	25.00
12/21/2017	Suntrust Bankcard, N.A.	JL Cumberland Farms Fuel	46.00
12/22/2017	Suntrust Bankcard, N.A.	JL Pilot Fuel	27.20
12/22/2017	Suntrust Bankcard, N.A.	JL Pilot Fuel	8.55
12/22/2017	Suntrust Bankcard, N.A.	JL Travelodge 12/21-12/22	165.18
12/27/2017	Suntrust Bankcard, N.A.	JL RaceTrac Fuel	6.00
12/29/2017	Suntrust Bankcard, N.A.	JL RaceTrac Fuel	36.00
12/30/2017	Suntrust Bankcard, N.A.	JL Travelodge 12/26-12/29	330.36
1/4/2018	Suntrust Bankcard, N.A.	JL Marathon Petro Fuel 12/22	62.48

Materials and Supplies

12/20/2017	Materials From Stock	Oxygen (7 @ \$27.47 ea)	192.29
12/20/2017	Materials From Stock	Burning Rods (162 @ \$3.19 ea)	516.78
12/21/2017	Materials From Stock	Burning Rods (195 @ \$3.19 ea)	622.05
12/21/2017	Materials From Stock	Oxygen (4 @ \$27.47 ea)	109.88
12/22/2017	Materials From Stock	Oxygen (5 @ \$27.47 ea)	137.35
12/22/2017	Materials From Stock	Burning Rods (130 @ \$3.19 ea)	414.70
12/22/2017	Materials From Stock	Torch Collets	55.16
12/26/2017	Materials From Stock	Oxygen \$5 @ \$27.47 ea)	137.35
12/26/2017	Materials From Stock	Rods (110 @ \$2.43 ea)	267.30
12/27/2017	Douglas Pneumatics Co.	Chisel Jumbo	30.00
12/27/2017	Douglas Pneumatics Co.	Collar/Lower Sleeve	60.00
12/27/2017	Sunbelt Rentals	Jack Hammer/Rock Drill	157.00
12/27/2017	Suntrust Bankcard, N.A.	JL Home Depot Tool Oil	14.57
12/27/2017	Douglas Pneumatics Co.	Bushings/Bumper Orange	25.50
12/27/2017	Douglas Pneumatics Co.	Small Chisel Bit	18.00
12/28/2017	Douglas Pneumatics Co.	Chisel Round 18"	26.00
12/28/2017	Douglas Pneumatics Co.	Bumper Orange	25.50
12/28/2017	Douglas Pneumatics Co.	Chisel Jumbo 12"	31.90
12/28/2017	Douglas Pneumatics Co.	Lower Sleeve Split	29.00
12/29/2017	Douglas Pneumatics Co.	Bumper Orange	8.50
12/29/2017	Douglas Pneumatics Co.	Lower Sleeve	30.00
12/29/2017	Douglas Pneumatics Co.	Upper Sleeve	30.00
12/30/2017	Douglas Pneumatics Co.	Chisel Round 12"	18.00

**Instructions to Remit Payment by Wire**

**For Credit To: Signature Bank (631) 962-7370 ABA# 026013576**

**For Further Credit To: Underwater Engineering Services, Inc.**

**Account No.: #1501829729**

**Please Reference Invoice Number**

Project	COM-2017297.00	LM Heavy Civil Dive Support Port of Palm	Invoice	7297-01
12/30/2017	Materials From Stock	Large Spring	5.00	
12/30/2017	Douglas Pneumatics Co.	Bumper Orange	25.50	
12/30/2017	Douglas Pneumatics Co.	Lower Sleeve Split	29.00	
	<b>Total Reimbursables</b>	<b>1.1 times</b>	<b>3,734.10</b>	<b>4,107.51</b>

**Unit Billing**

12/20/2017	3-Man Team (Mon-Fri)	8.0 Hours @ 198.00	1,584.00
12/21/2017	3-Man Team (Mon-Fri)	8.0 Hours @ 198.00	1,584.00
12/22/2017	3-Man Team (Mon-Fri)	8.0 Hours @ 198.00	1,584.00
12/26/2017	3-Man Team (Mon-Fri)	16.0 Hours @ 198.00	3,168.00
12/27/2017	3-Man Team (Mon-Fri)	16.0 Hours @ 198.00	3,168.00
12/28/2017	3-Man Team (Mon-Fri)	16.0 Hours @ 198.00	3,168.00
12/29/2017	3-Man Team (Mon-Fri)	16.0 Hours @ 198.00	3,168.00
12/20/2017	3-Man Team OT (>8hrs, wknds, hol)	5.0 Hours @ 256.00	1,280.00
12/22/2017	3-Man Team OT (>8hrs, wknds, hol)	1.0 Hour @ 256.00	256.00
12/26/2017	3-Man Team OT (>8hrs, wknds, hol)	2.5 Hours @ 256.00	640.00
12/27/2017	3-Man Team OT (>8hrs, wknds, hol)	5.0 Hours @ 256.00	1,280.00
12/28/2017	3-Man Team OT (>8hrs, wknds, hol)	5.0 Hours @ 256.00	1,280.00
12/29/2017	3-Man Team OT (>8hrs, wknds, hol)	5.0 Hours @ 256.00	1,280.00
12/30/2017	3-Man Team OT (>8hrs, wknds, hol)	20.0 Hours @ 256.00	5,120.00
12/20/2017	Additional Supervisor - OT	1.0 Hour @ 85.00	85.00
12/21/2017	Additional Supervisor - OT	1.0 Hour @ 85.00	85.00
12/22/2017	Additional Supervisor - OT	1.0 Hour @ 85.00	85.00
12/20/2017	Mileage	122.0 Miles @ 0.65	79.30
12/21/2017	Mileage	244.0 Miles @ 0.65	158.60
12/22/2017	Mileage	244.0 Miles @ 0.65	158.60
12/26/2017	Mileage	366.0 Miles @ 0.65	237.90
12/27/2017	Mileage	244.0 Miles @ 0.65	158.60
12/28/2017	Mileage	374.0 Miles @ 0.65	243.10
12/29/2017	Mileage	244.0 Miles @ 0.65	158.60
12/30/2017	Mileage	244.0 Miles @ 0.65	158.60
12/20/2017	Mobilize	1.0 Each @ 400.00	400.00
12/26/2017	Mobilize	1.0 Each @ 400.00	400.00
12/20/2017	Travel (2-Man Crew)	1.0 Hour @ 98.00	98.00
12/21/2017	Travel (2-Man Crew)	3.0 Hours @ 98.00	294.00
12/22/2017	Travel (2-Man Crew)	1.0 Hour @ 98.00	98.00
12/26/2017	Travel (2-Man Crew)	2.0 Hours @ 98.00	196.00
12/27/2017	Travel (2-Man Crew)	4.0 Hours @ 98.00	392.00
12/28/2017	Travel (2-Man Crew)	4.0 Hours @ 98.00	392.00
12/29/2017	Travel (2-Man Crew)	4.0 Hours @ 98.00	392.00
12/30/2017	Travel (2-Man Crew)	2.0 Hours @ 98.00	196.00
12/21/2017	Per Diem per Man	1.0 Each @ 40.00	40.00
12/22/2017	Per Diem per Man	1.0 Each @ 40.00	40.00
12/26/2017	Per Diem per Man	2.0 Each @ 40.00	80.00
12/27/2017	Per Diem per Man	2.0 Each @ 40.00	80.00
12/28/2017	Per Diem per Man	2.0 Each @ 40.00	80.00
12/29/2017	Per Diem per Man	2.0 Each @ 40.00	80.00

**Instructions to Remit Payment by Wire**

**For Credit To: Signature Bank (631) 962-7370 ABA# 026013576**

**For Further Credit To: Underwater Engineering Services, Inc.  
Account No.: #1501829729**

**Please Reference Invoice Number**

Project	COM-2017297.00	LM Heavy Civil Dive Support Port of Palm	Invoice	7297-01
12/22/2017	Travel (3-Man Crew)	1.0 Hour @ 147.00	147.00	
12/26/2017	Travel (3-Man Crew)	2.0 Hours @ 147.00	294.00	
12/30/2017	Travel (3-Man Crew)	2.0 Hours @ 147.00	294.00	
12/30/2017	#15 Chipper	9.0 Each @ 50.00	450.00	
12/30/2017	185 Air Compressor	4.0 Days @ 100.00	400.00	
12/30/2017	5000 psi Pressure Washer	4.0 Days @ 50.00	200.00	
12/30/2017	Rivet Buster	8.0 Each @ 65.00	520.00	
12/30/2017	Surface Supplied Dive Package	13.0 Days @ 75.00	975.00	
12/30/2017	UW Burning Package	4.0 Days @ 150.00	600.00	
12/30/2017	Work Truck	16.0 Each @ 75.00	1,200.00	
	<b>Total Units</b>	<b>1.0 times</b>	<b>38,506.30</b>	<b>38,506.30</b>

**Retainage**

Current Retainage	4,261.38 (10.00 % of 42,613.81)	-4,261.38
Retainage-To-Date	4,261.38	

**Total this Invoice \$38,352.43**

**Billings to Date**

	Current	Prior	Total
Expense	4,107.51	0.00	4,107.51
Unit	38,506.30	0.00	38,506.30
<b>Totals</b>	<b>42,613.81</b>	<b>0.00</b>	<b>42,613.81</b>

Authorized By:   
 John Glanville III

Date: 1/10/18

**Instructions to Remit Payment by Wire**  
**For Credit To: Signature Bank (631) 962-7370 ABA# 026013576**  
**For Further Credit To: Underwater Engineering Services, Inc.**  
**Account No.: #1501829729**  
**Please Reference Invoice Number**

Beyel Brothers Inc.  
Post Office Box 236246  
Cocoa, FL 32923-6246  
(321) 632-2000 Ph.  
(321) 631-0371 Fax

**Invoice 234946**  
Invoice Date: November 12, 2017  
Customer: LMH001  
Job No : WW-114041  
Salesperson: MIKE COGGINS  
Ordered By: PHILLIP

LM HEAVY CIVIL CONSTRUCTION  
100 HANCOCK STREET, SUITE #901  
QUINCY, MA 02171  
USA

Job Site :  
Port of Palm Beach - Piles  
West Palm Beach, FL

Terms: NET10

Customer P.O. No: 021566  
Work Performed : BARE RENTAL OF 200 TON CRAWLER CRANE

Date	Description	Unit No	Qty Unit Meas	Rate	Extension
11/12/2017 to 12/11/2017	200 TON CRAWLER CRANE	320	1.00 Months	\$17,800.00 T	\$17,800.00

T=Taxable Taxable Amount: \$17,800.00

Subtotal:	\$17,800.00
FL Sales Tax-Palm Beach County:	\$1,118.00
<b>Total Invoice:</b>	<b>\$18,918.00</b>

Beyel Brothers, Inc. reports to Dun & Bradstreet. For immediate credit, please make sure to include your Beyel Customer number with payment.

*OPERATING COST.*

$$18,918 / 176 = 107.49 / \text{HR}$$
$$112.50 / \text{HR}$$

---

$$249.99$$

Beyel Brothers Inc.  
Post Office Box 236246  
Cocoa, FL 32923-6246  
(321) 632-2000 Ph.  
(321) 631-0371 Fax

**Invoice 234946**  
Invoice Date: November 12, 2017  
Customer: LMH001  
Job No : WW-114041  
Salesperson: MIKE COGGINS  
Ordered By: PHILLIP

LM HEAVY CIVIL CONSTRUCTION  
100 HANCOCK STREET, SUITE #901  
QUINCY, MA 02171  
USA

Job Site :  
Port of Palm Beach - Piles  
West Palm Beach, FL

Terms: NET10

Customer P.O. No: 021566  
Work Performed : BARE RENTAL OF 200 TON CRAWLER CRANE

Date	Description	Unit No	Qty	Unit Meas	Rate	Extension
11/12/2017 to 12/11/2017	200 TON CRAWLER CRANE	320	1.00	Months	\$17,800.00 T	\$17,800.00

T=Taxable Taxable Amount: \$17,800.00

Subtotal: \$17,800.00  
FL Sales Tax-Palm Beach County: \$1,118.00  
**Total Invoice: \$18,918.00**

Beyel Brothers, Inc. reports to Dun & Bradstreet. For immediate credit, please make sure to include your Beyel Customer number with payment.

**Job 1604**  
**PC 200200**

*D. Marinilli*  
**13FEB18**

**Rental Rate Blue Book®**

September 14, 2016

**Link-Belt LS-248H SERIES II**

Crawler Mounted Lattice Boom Cranes



Size Class:

**150.0 - 200.9 MTons**

Weight:

**324,217 lbs.**
**Configuration for LS-248H SERIES II**

Maximum Lift Capacity	<b>181.4 mt</b>	Boom Base Length	<b>50 ft</b>
Net Horsepower	<b>266 hp</b>	Power Mode	<b>Diesel</b>

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$36,760.00	\$10,295.00	\$2,575.00	\$385.00	\$142.50	\$351.36
<b>Adjustments</b>						
Region (Florida: 97.4%)	(\$955.76)	(\$267.67)	(\$66.95)	(\$10.01)		
Model Year (1999: 93.3%)	(\$2,398.88)	(\$671.83)	(\$168.04)	(\$25.12)		
Ownership (100%)	-	-	-	-		
Operating (100%)						
<b>Total:</b>	<b>\$33,405.36</b>	<b>\$9,355.50</b>	<b>\$2,340.01</b>	<b>\$349.87</b>	<b>\$142.50</b>	<b>\$332.30</b>

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	29%	\$10,660.40/mo
Overhaul (ownership)	49%	\$18,012.40/mo
CFC (ownership)	10%	\$3,676.00/mo
Indirect (ownership)	12%	\$4,411.20/mo
Fuel (operating) @ 2.78	17%	\$24.40/hr

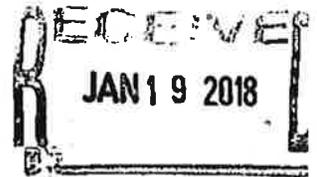
Revised Date: 1st Half 2016

Johnbro

A1604



# INVOICE



Invoice No.: LMH001  
Customer No: LMH  
Date: 11/15/17

4316 New River Hills Parkway  
Suite 8  
Valrico, FL 33596  
Tel: (813)-643-3459  
Fax: (813)-643-6029

**BILL TO**

LM Heavy Civil Construction, LLC  
4440 PGA Boulevard #600  
Palm Beach Gardens FL 33410  
Attn: Mr. Francesco Sidoti  
Tel: 754-581-2074

QTY	QTY UM	DESCRIPTION	UNIT RATE	TOTAL
8 ✓	HR	Work on 10/16 and 10/20	\$ 950.00	\$ 7,600.00 ✓
17 ✓	HR	Work on 10/23, 10/24, 10/25, 10/26, 10/27	\$ 950.00	\$ 16,150.00 ✓
6 ✓	HR	Work on 11/1 and 11/3	\$ 950.00	\$ 5,700.00 ✓
8 ✓	HR	Work on 11/6, 11/7, 11/9, 11/10, 11/11	\$ 950.00	\$ 7,600.00
24 ✓	Days	Pipe Roller Rental 10/16 through 11/11	\$ 500.00	\$ 12,000.00
			\$ -	\$ -
			\$ -	\$ -

Subtotal \$ 49,050.00  
 Taxable \$ -  
 Tax rate Incl.  
 Tax due \$ -  
 Other \$ -  
**TOTAL Due \$ 49,050.00**

**OTHER COMMENTS**

1. Total payment due in 30 days  
 2. Please include the invoice number on your check

Make all checks payable to  
Johnson Bros. Corp

If you have any questions about this invoice, please contact  
Kyle Humphreys, (727) 409-4209 [Khumphreys@johnson-bros.com](mailto:Khumphreys@johnson-bros.com)

**Thank You For Your Business!**



EQUIPMENT CORPORATION OF AMERICA  
 P.O. Box 306, Coraopolis, PA 15108  
 Phone: (412) 264-4480  
 Fax: (412) 264-1158

DEC 04 2017

A1604

PHILADELPHIA  
 PITTSBURGH  
 WASHINGTON, D. C.  
 BOSTON  
 JACKSONVILLE

**RENTAL INVOICE**

Account# 2530	Order# 54354	Brc 5	S/s 502
	Date 11-27-2017	Invoice# 50004494	Page 1 of 1

Sold To:

1148 1 MB 0.423 E0432X I0696 D3071224885 S2 P4855225 0001:0001

Ship To:



LM HEAVY CIVIL CONSTRUCTION  
 100 HANCOCK ST FL 9  
 QUINCY MA 02171-1745

LM HEAVY CIVIL CONSTRUCTION  
 PORT OF PALM BEACH-BERTH 17  
 270 MARTIN LUTHER KING JR BLVD.  
 RIVIERA BEACH, FL 33404

Ship via CUST ARRANGED

Entered by noemik	Customer Purchase Order 021417/LMH JOB 16-00-004		Customer Contact F.SIDOTWP.HEWES		Ord date 11-24-2017
Model	Serial Number	Equip ID	Customer Job number	Customer Phone # 617-845-8000	
Ord	Ship	B/O Part Number	Description	Unit Price	UM Extended

1		Id# H230-500030 Model - D30-32 DELMAG D30-32 HAMMER	From: 11-24-17 Serial#: 7557	Thru: 12-21-17					
							mtr out		3,450.00
1		Id# H012-500705 Model - HPH-1200 POWER PACK FOR DAWSON VIBRO HPH1200	From: 11-24-17 Serial#: ABI/DAWS	Thru: 12-21-17					
							mtr out		3,365.00
1		Id# H6FP-501692 Model - PIPE PILECO 16IN-36IN PIPE INSERT	From: 11-24-17 Serial#: OH42-016	Thru: 12-21-17					
							mtr out		1,185.00
2A		PILECO U42 LEAD, 40FT TOP (40T-031)						1,680.0	1,680.00
1		PILECO U42 LEAD, 20FT MID (20I-030)						840.0	840.00
1		PILECO U42 LEAD, 15FT MID (15I-002)						630.0	630.00
1		PILECO U42 LEAD, 5FT STAB (05S-002) FROM 11-24-17 THRU 12-21-17						210.0	210.00

80' 120' ON SITE

Sub Total

11,360.00

FL FLORIDA SALES TAX

731.59

HAMMER + LEADS. 12,091.59 + 1680 (1.06) = 13,872.39 / 160 = 86.70  
 OPERATING COST 32.60  
 119.30

PLEASE REMIT PAYMENT WITHIN TERMS TO AVOID 1.5 SERVICE CHARGE, WE REPORT TO ALL CREDIT AGENCIES AVOID BEING REPORTED BY PAYING PROMPTLY!

Amount Due 12,091.59  
 Due By: 12/27/17



CONSTRUCTION & MINING / SALES . SERVICE . RENTAL

TO VIEW ONLINE	http://ecanet.billtrust.com
ENROLLMENT TOKEN	DFS DKV FKF



EQUIPMENT CORPORATION OF AMERICA  
P.O. Box 308, Coraopolis, PA 15108  
Phone: (412) 264-4480  
Fax: (412) 264-1158

DEC 04 2017

A1604

PHILADELPHIA  
PITTSBURGH  
WASHINGTON, D. C.  
BOSTON  
JACKSONVILLE

**RENTAL INVOICE**

Account# 2530	Order# 54354	Brn 5	S/s 502
	Date 11-27-2017	Invoice# 50004494	Page 1 of 1

Sold To:

1148 1 MB 0.423 E0432X I0696 D3071224885 S2 P4855225 0001:0001

Ship To:



LM HEAVY CIVIL CONSTRUCTION  
100 HANCOCK ST FL 9  
QUINCY MA 02171-1745

LM HEAVY CIVIL CONSTRUCTION  
PORT OF PALM BEACH-BERTH 17  
270 MARTIN LUTHER KING JR BLVD.  
RIVIERA BEACH, FL 33404

Ship via CUST ARRANGED

Entered by noemik	Customer Purchase Order 021417/LMH JOB 16-00-004	Customer Contact F.SIDOTVP.HEWES	Ord date 11-24-2017
Model	Serial Number	Equip ID	Customer Job number
			Customer Phone # 617-845-8000

Ord	Ship	B/O Part Number	Description	Unit Price	UM	Extended
-----	------	-----------------	-------------	------------	----	----------

1		Id# H230-500030 Model - D30-32 DELMAG D30-32 HAMMER	From: 11-24-17 Serial#: 7557 mtr out			3,450.00
1		Id# H012-500705 Model - HPH-1200 POWER PACK FOR DAWSON VIBRO HPH1200	From: 11-24-17 Serial#: ABI/DAWS mtr out			3,365.00
1		Id# H6FP-501692 Model - PIPE PILECO 16IN-36IN PIPE INSERT	From: 11-24-17 Serial#: OH42-016 mtr out			1,185.00
1		PILECO U42 LEAD, 40FT TOP (40T-031)		1,680.0		1,680.00
1		PILECO U42 LEAD, 20FT MID (20I-030)		840.0		840.00
1		PILECO U42 LEAD, 15FT MID (15I-002)		630.0		630.00
1		PILECO U42 LEAD, 5FT STAB (05S-002) FROM 11-24-17 THRU 12-21-17		210.0		210.00

Sub Total

FL FLORIDA SALES TAX

DATE RECEIVED	3-2-18
PO NUMBER	026048
JOB NUMBER:	1604
COST CODE:	980202
APPROVED BY:	<i>Nickerson</i>

11,360.00

731.59

Amount Due

12,091.59

Due By:

12/27/17

PLEASE REMIT PAYMENT WITHIN TERMS TO AVOID 1.5 SERVICE CHARGE, WE REPORT TO ALL CREDIT AGENCIES AVOID BEING REPORTED BY PAYING PROMPTLY!



CONSTRUCTION & MINING / SALES . SERVICE . RENTAL

TO VIEW ONLINE	<a href="http://ecanet.billtrust.com">http://ecanet.billtrust.com</a>
ENROLLMENT TOKEN	DFS DKV FKF

**Rental Rate Blue Book®**

February 8, 2018

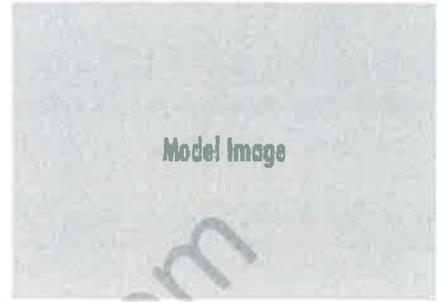
**American Piledriving D30-32**

Diesel Hammers

Size Class:

**50,000 - 74,999 lb**

Weight:

**15,950 lbs.**

**Configuration for D30-32**

Maximum Rated Energy	<b>69898 ft-lb</b>	Hammer Type	<b>Single Acting</b>
Power Mode	<b>Diesel</b>	Horsepower	<b>84</b>

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$7,515.00	\$2,105.00	\$525.00	\$79.00	\$32.60	\$75.30
<b>Adjustments</b>						
Region ( Florida DOT: 98.9%)	(\$82.66)	(\$23.15)	(\$5.77)	(\$0.87)		
Model Year (2017: 99.8%)	(\$14.86)	(\$4.16)	(\$1.04)	(\$0.16)		
Ownership (100%)	-	-	-	-		
Operating (100%)	-	-	-	-		
<b>Total:</b>	<b>\$7,417.48</b>	<b>\$2,077.69</b>	<b>\$518.19</b>	<b>\$77.97</b>	<b>\$32.60</b>	<b>\$74.74</b>

**Non-Active Use Rates**

Standby Rate	\$21.07
Idling Rate	\$50.47

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	31%	\$2,329.65/mo
Overhaul (ownership)	53%	\$3,982.95/mo
CFC (ownership)	6%	\$450.90/mo
Indirect (ownership)	10%	\$751.50/mo
Fuel (operating) @ 2.57	26%	\$8.33/hr

Revised Date: 1st Half 2018

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for PHIL HEWES (phewes@lmheavycivil.com)



EQUIPMENT CORPORATION OF AMERICA  
P.O. Box 306, Coraopolis, PA 15108  
Phone: (412) 264-4480  
Fax: (412) 264-1158

*A1604*  
NOV 15 2017

PHILADELPHIA  
PITTSBURGH  
WASHINGTON, D. C.  
BOSTON  
JACKSONVILLE

**RENTAL INVOICE**

Account# 2530	Order# 54295	Brc 5	Sls 502
	Date 11-10-2017	Invoice# 50004431	Page 1 of 1

Sold To:

56 1 MB 0.423 E0445X I0725 D3026841367 S2 P4818457 0001:0001

Ship To:



LM HEAVY CIVIL CONSTRUCTION  
100 HANCOCK ST FL 9  
QUINCY MA 02171-1745

LM HEAVY CIVIL CONSTRUCTION  
PORT OF PALM BEACH-BERTH 17  
270 MARTIN LUTHER KING JR BLVD.  
RIVIERA BEACH, FL 33404

Ship-via CUST-ARRANGED

Entered by noemik	Customer Purchase Order 025255/LMH JOB 16-00-004	Customer Contact F.SIDOT/P.HEWES	Ord date 11-09-2017
Model	Serial Number	Equip ID	Customer Job number
			Customer Phone # 617-845-8000
Ord	Ship	B/O Part Number	Description
			Unit Price UM Extended

1	Id# H430-759091	From: 11-09-17	Thru: 12-06-17		
	Model - 500		Serial#: 2975/2976		
	HPSI 500 VIBRATORY HAMMER W PWR PK				
	mtr out				8,600.00
1	Id# H4CB-500984	From: 11-09-17	Thru: 12-06-17		
	Model - BEAM		Serial#: HPH-1464		
	HPSI 9FT CAISSON BEAM				
	mtr out				580.00
1	Id# H4CB-501708	From: 11-09-17	Thru: 12-06-17		
	Model - CLAMP		Serial#: 2585		
	HPSI 125 TON CAISSON CLAMP				
	mtr out				510.00
1	Id# H4CC-501408	From: 11-09-17	Thru: 12-06-17		
	Model - CLAMP		Serial#: HPS-2143		
	HPSI 125 TON CAISSON CLAMP				
	mtr out				510.00
	Sub Total				10,200.00
	FL	FLORIDA SALES TAX			661.99

*20 DAY RENT PERIOD -*  
RENT.  $10,861.99 / 160 = 67.89$   
OP COST.  $74.00$   
141.89

PLEASE REMIT PAYMENT WITHIN TERMS TO AVOID 1.5 SERVICE CHARGE, WE REPORT TO ALL CREDIT AGENCIES AVOID BEING REPORTED BY PAYING PROMPTLY!

Amount Due 10,861.99  
Due By: 12/10/17



CONSTRUCTION & MINING / SALES . SERVICE . RENTAL

TO VIEW ONLINE	<a href="http://ecanet.billtrust.com">http://ecanet.billtrust.com</a>
ENROLLMENT TOKEN	DFS DKV FKE

**Rental Rate Blue Book®**

February 8, 2018

**Hydraulic Power Sys. 450**

Vibratory Hammers/Extractors

Size Class:

**150.0 - 199.9 Tons**

Weight:

**32,750 lbs.**

**Configuration for 450**

Horsepower	<b>540 hp</b>	Power Mode	<b>Diesel</b>
Maximum Driving Force	<b>164 t</b>		

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$10,670.00	\$2,990.00	\$750.00	\$115.00	\$74.00	\$134.63
<b>Adjustments</b>						
Region ( Florida DOT: 98.9%)	(\$117.37)	(\$32.89)	(\$8.25)	(\$1.26)		
Model Year (2018: 100%)	-	-	-	-		
Ownership (100%)	-	-	-	-		
Operating (100%)					-	
<b>Total:</b>	<b>\$10,552.63</b>	<b>\$2,957.11</b>	<b>\$741.75</b>	<b>\$113.74</b>	<b>\$74.00</b>	<b>\$133.96</b>

**Non-Active Use Rates**

	Hourly
Standby Rate	\$29.98
Idling Rate	\$108.67

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	48%	\$5,121.60/mo
Overhaul (ownership)	34%	\$3,627.80/mo
CFC (ownership)	7%	\$746.90/mo
Indirect (ownership)	11%	\$1,173.70/mo
Fuel (operating) @ 2.57	66%	\$48.71/hr

Revised Date: 1st Half 2018

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for PHIL HEWES (phewes@lmheavycivil.com)



100 Hancock St. Suite 901  
Quincy, MA 02171  
Ph : 617-845-8000

a Cmc Company



## Letter of Transmittal

**To:** Karen Brandon  
AECOM  
2090 Palm Beach Lakes Blvd  
Suite 600  
West Palm Beach, FL 33409  
Ph: 561-515-3907 Fax: 561-689-8531

**Transmittal #:** 542  
**Date:** 3/12/2018  
**Job:** 16-00-004 Port of Palm Beach Berth 17

**Subject:** Dolphin 2 Add Work Plugs PDA Down

**WE ARE SENDING YOU**  Attached  Under separate cover via None the following items:  
 Shop drawings  Prints  Plans  Samples  
 Copy of letter  Change order  Specifications  Other

Document Type	Copies	Date	No.	Description
Letter	1	3/12/18		Letter - Dolphin 2 Add Work Plugs PDA Down Time-signed

**THESE ARE TRANSMITTED as checked below:**

- For approval  Approved as submitted  Resubmit \_\_\_ copies for approval
- For your use  Approved as noted  Submit \_\_\_ copies for distribution
- As requested  Returned for corrections  Return \_\_\_ corrected prints
- For review and comment  Other
- FOR BIDS DUE  PRINTS RETURNED AFTER LOAN TO US

**Remarks:**

**Copy To:** Jose Soler

**From:** Andromda Scott (LM Heavy Civil Construcion)

**Signature:** \_\_\_\_\_



LM HEAVY CIVIL CONSTRUCTION, LLC

1604-088-W

March 12, 2018

Port of Palm Beach District  
301 Broadway  
Riviera Beach, FL 33404

Attention: Ms. Karen Brandon, P.E.  
AECOM Operations Manager

Reference: Port of Palm Beach District  
Berth 17 Project

Subject: Pipe Pile Capacities  
PCN 33 PDA Plugs and Down Time Due to Piles Not Reaching Capacities

Dear Ms. Brandon,

LM Heavy Civil Construction, LLC (LMH) has attached to this letter a change order for cost incurred to fabricate pipe pile plugs, for ten additional PDA test of pipe piles and for down time resulting from pipe pile not reaching capacities. LMH cost for this additional work is Five hundred and Sixty thousand Five hundred and Forty Two dollars and Fifteen cents (\$560,542.15)

All piles were driven to design tip elevations. Not a single pile of the twelve driven reached design capacities. Because of this AECOM requested that pipe pile plugs be installed, that each pile be PDA tested with multiple restrikes of two days, five days, and seven days. During this requested work, equipment and crews were on standby.

404 E Atlantic Boulevard, Suite 101 | Pompano Beach, FL 33060

P: 754-218-0200 | F: 754-218-0201 | Toll Free: 855-LMHEAVY | Estimating Fax: 754-218-0201

[www.LMHeavyCivil.com](http://www.LMHeavyCivil.com) | Email: [info@lmheavycivil.com](mailto:info@lmheavycivil.com)

An Equal Opportunity Employer



LMH is currently performing a time impact analysis to determine the effect of this delay and other changes on the critical path of Project completion and will share the results with Port of Palm Beach District as soon as the analysis is complete. As such, the extent of the delay is unknown at this time, LMH reserves its right to request additional time associated with this delay as well as to finalize any time-related cost resulting from this delay. Such costs and time requests will be submitted under separate cover.

We appreciate your reasonable indulgence in allowing us additional time to prepare and compile the proposal(s).

LMH has included all information available to it at this time. LMH hereby specifically reserves its right to supplement this Notice with any further information as it becomes available.

Should you have any questions, please do not hesitate to contact LMH at (754) 218-0200.

Sincerely,  
**LM Heavy Civil Construction, LLC**

Philippe Hewes  
**Project Manager**

Enc.



**RECAPITULATION  
CHART**

Date: March 12, 2018

Est. #	PCN 033
Rev. #	

Pipe Pile Not Attaining Design Capacities

1	Labor (Direct Costs)		<u>\$25,767.20</u>
2	Materials		<u>                    </u>
3	Equipment		<u>\$401,291.69</u>
<b>3A</b>	<b>Subtotal (Labor + Materials + Equipment)</b>		<u><b>\$427,058.90</b></u>
4	Overhead (0% of Line 3A)		<u>                    </u>
5	Insurance and Payroll Taxes		<u>3019.92</u>
5A	Workers Compensation		<u>\$1,504.80</u>
6	Health, Welfare & Benefits on Labor		<u><b>\$9,073.10</b></u>
<b>6A</b>	<b>Subtotal (Lines 3A+4+5+5A+6)</b>		<u><b>\$440,656.72</b></u>
7	Profit % of Line 6A	15.00%	<u>\$66,098.51</u>
7A	Subtotal (Lines 6A+7)		<u>\$506,755.22</u>
8	Subcontractor Total		<u><b>\$45,940.00</b></u>
9	5% of Line 8		<u>\$2,297.00</u>
<b>9A.</b>	<b>Subtotal (Lines 7A+8+9)</b>		<u><b>\$554,992.22</b></u>
<b>10</b>	<b>Bond 1% of Line 9A</b>		<u><b>\$5,549.92</b></u>
11	Grand Total		<u><b>\$560,542.15</b></u>

UNIT PRICE            QTY            1            LS



Insurance & Payroll Taxes	
Federal FICA	7.31%
Federal Unemployment (FUTA)	0.92%
State Unemployment (SUTA)	3.49%
State Health	
Workers Compensation	5.84%
<b>TOTAL</b>	<b>17.56%</b>

Health & Welfare and Other Benefits			
Trade	Hours	Rate	Total
FL - Laborer		<b>\$6.19</b>	
MA - Laborer Z2		\$21.70	
MA - Laborer Z3		\$18.53	
MA-Pile Driver	86.50	\$34.38	\$2,973.87
FL - Iron Worker		\$12.09	
FL1809-Pile Dr/Carpe	431.00	\$10.36	\$4,465.16
FL - Operator	80.00	\$9.30	\$744.00
MA - Operator	32.00	\$26.76	\$856.32
MA - Operator O/T	22.50	\$1.50	\$33.75
		\$10.36	
		\$26.43	
Equipment Hours	3562.50		
<b>TOTAL</b>	<b>652.00</b>		<b>\$9,073.10</b>

CO # PCN 033  
 Rev. # 0

PROJECT: POPB Berth 17  
 OWNER: Port of Palm Beach Berth 17

Date: 3/12/2018

DESCRIPTION OF WORK: Pipe Pile Not Attaining Design Capacities

K:\Jobs\LM1085\08-16-09-004 Port of Palm Beach Berth 17\Cost\033 Pipe Pile Capacities\1604 PCN 033 Pipe Pile Capacities 1.xls\Labor Hours

Description	Labor		Total Qty.	Unit	Unit Price	Totals				
	No.	Hours				Labor	Equip.	Mat'ls	Subs.	Other
<b>Delays caused by Testing All Piles and Pipe Plugs</b>										
PILE DRIVER FOREMAN - MA	1	48.00	48.00	HR	\$48.70	\$2,337.60				
PILE DRIVER FOREMAN-MA-OT	1	15.00	15.00	HR	\$73.05	\$1,095.75				
PILE DRIVER FOREMAN-MA-DT	1	23.50	23.50	HR	\$73.05	\$1,716.68				
PILE DRIVER FOREMAN -FL	1			HR	\$33.00					
PILE DRIVER FOREMAN-FL-OT	1			HR	\$49.50					
PILE DRIVER FOREMAN-FL-DT	4			HR	\$37.80					
PILE DRIVER JOURNEYMAN	1	75.00	75.00	HR	\$25.20	\$1,890.00				
PILE DRIVER JOURNEYMAN-OT	1	16.00	16.00	HR	\$37.80	\$604.80				
PILE DRIVER JOURNEYMAN-DT	1	18.00	18.00	HR	\$37.95	\$683.10				
PILE DRIVER WELDER	1	48.00	48.00	HR	\$25.70	\$1,233.60				
PILE DRIVER WELDER-OT	1	16.00	16.00	HR	\$38.55	\$616.80				
PILE DRIVER WELDER-DT	1	10.50	10.50	HR	\$34.50	\$362.25				
PILE DRIVER APPRENDICE 1	1	16.00	16.00	HR	\$15.12	\$241.92				
PILE DRIVER APPRENDICE 1OT	1	4.00	4.00	HR	\$22.68	\$90.72				
PILE DRIVER APPRENDICE 1	1			HR	\$15.12					
PILE DRIVER APPRENDICE 2	1	24.00	24.00	HR	\$16.00	\$384.00				
PILE DRIVER APPRENDICE 2 OT	1	4.50	4.50	HR	\$24.00	\$108.00				
PILE DRIVER APPRENDICE 2-DT	1		2.00	HR	\$37.80	\$75.60				
PILE DRIVER APPRENDICE 3	1	32.00	32.00	HR	\$22.68	\$725.76				
PILE DRIVER APPRENDICE 3 OT	1	6.50	6.50	HR	\$34.02	\$221.13				
PILE DRIVER APPRENDICE 3-DT	1			HR	\$55.38					
Operator Cl-1	1	32.00	32.00	HR	\$54.11	\$1,731.52				
OPERATOR-MA-OT	1	10.00	10.00	HR	\$81.17	\$811.65				
OPERATOR-MA-DT	1	12.50	12.50	HR	\$81.17	\$1,014.56				
OPERATOR CL-1	1	48.00	48.00	HR	\$33.58	\$1,611.84				
OPERATOR-FL-OT	1	11.00	11.00	HR	\$50.37	\$554.07				
OPERATOR-FL-DT	1	21.00	21.00	HR	\$50.37	\$1,057.77				
LABORER FOREMAN	1			HR	\$23.00					
LABORER FOREMAN OT	1			HR	\$34.50					
LABORER FOREMAN DT	1			HR	\$34.50					
LABOR CONCRETE	1			HR	\$17.75					
LABOR CONCRETE OT	1			HR	\$26.63					
LABOR CONCRETE DT	1			HR	\$26.63					
LABOR JOURNEYMAN	1			HR	\$15.75					
LABOR JOURNEYMAN OT	1			HR	\$23.63					
LABOR JOURNEYMAN DT	1			HR	\$23.63					
OPERATOR NON UNION 1	1	17.50	17.50	HR	\$26.89	\$470.58				
OPERATOR NON UNION 1 OT	1			HR	\$40.34					
OPERATOR NON UNION 2	1	25.50	25.50	HR	\$25.44	\$648.72				
OPERATOR NON UNION 2 OT	1	4.00	4.00	HR	\$38.16	\$152.64				
LABORER NON UNION	1	8.00	8.00	HR	\$22.00	\$176.00				
LABORER NON UNION OT				HR	\$33.00					
F250 Foreman Truck 2014	2	86.50	173.00	HR	\$29.79		\$5,153.67			
Link-Belt LS-248H	1.0	74.50	74.50	HR	\$260.74		\$19,425.13			

CO #	PCN 033
Rev. #	0

PROJECT: POPB Berth 17  
 OWNER: Port of Palm Beach Berth 17

Date: 3/12/2018

DESCRIPTION OF WORK: Pipe Pile Not Attaining Design Capacities

K:\Jobs\LM1085\08-16-00-004 Port of Palm Beach Berth 17\Cost\Change Order\033 Pipe Pile Capacities\1604 PCN 033 Pipe Pile Capacities 1.xls\LaborHours

Description	Labor		Total Qty.	Unit	Unit Price	Totals				
	No.	Hours				Labor	Equip.	Mat'ls	Subs.	Other
Mobro MB602	1	74.50	74.50	HR	\$105.68		\$7,873.30			
Mobro MB201	1	74.50	74.50	HR	\$93.35		\$6,954.74			
HPSI 300 Hyd Vibratory Standby	1	74.50	74.50	HR	\$61.26		\$4,563.87			
Pileco D30-32	1	74.50	74.50	HR	\$119.30		\$8,887.85			
Portable Welder 400amp	1	50.00	50.00	HR	\$8.36		\$418.00			
WORK BOAT	2	74.50	149.00	HR	\$47.49		\$7,076.01			
	1	9.00	9.00							
Johnson Brothers Crane Support	1	6.00	6.00	HR	\$990.00				\$5,940.00	
Johnson Brothers Pipe Roller	1	9.00	9.00	DY	\$500.00				\$4,500.00	
Coast to Coast Logistics	1	1.00	1.00	LS	\$3,700.00				\$3,700.00	
Universal Engineering	1	1.00	1.00	LS	\$28,200.00				\$28,200.00	
Manatee Consultant	1	6.00	6.00	DY	\$600.00				\$3,600.00	

Pipe Plugs Fabrication

PILE DRIVER FOREMAN -FL	1	32.00	32.00	HR	\$33.00	\$1,056.00				
PILE DRIVER FOREMAN-FL-OT	1	10.50	10.50	HR	\$49.50	\$519.75				
PILE DRIVER FOREMAN-FL-DT	1	19.00	19.00	HR	\$37.80	\$718.20				
PILE DRIVER WELDER	1	64.00	64.00	HR	\$25.70	\$1,644.80				
PILE DRIVER WELDER-OT	1	18.00	18.00	HR	\$38.55	\$693.90				
PILE DRIVER WELDER-DT	1	15.00	15.00	HR	\$34.50	\$517.50				
Portable Welder 400amp	2	48.50	97.00	HR	\$8.36	\$810.92				
Pipe Roller	1	9.00	9.00	DY	\$500.00	\$4,500.00				
Steel Materials	1	1.00	1.00	LS	\$2,438.00					
Misc Welding Supplies	1	1.00	1.00	LS	\$2,000.00					

Equipment Standby November 15, 2017 thru December 13, 2017 20 days

Link-Belt LS-248H	1	160.00	160.00	HR	\$260.74		\$41,718.40			
Mobro MB201	1	160.00	160.00	HR	\$93.35		\$14,936.36			
Mantis 140010	1	(160.00)	(160.00)	HR	\$100.74		(\$16,118.40)			
Poseidon Barge	1	160.00	160.00	HR	\$85.20		\$13,632.00			
HPSI 500 Hyd Vibratory Standby	1	160.00	160.00	HR	\$67.89		\$10,862.40			
HPSI 300 Hyd Vibratory Standby	1	160.00	160.00	HR	\$61.26		\$9,801.60			
Pileco D30-32	1	160.00	160.00	HR	\$119.30		\$19,088.00			
Flying Leads	1	160.00	160.00	HR	\$21.85		\$3,496.00			

Equipment Standby December 16, 2017 thru January 31, 2018 33 days

Link-Belt LS-248H	1	264.00	264.00	HR	\$260.74		\$68,835.36			
Mantis 140010	1	(264.00)	(264.00)	HR	\$100.74		(\$26,595.36)			





# Short Form Scope and Fee/Contract

**ESA Scheda**  
 204 Dixie Boulevard  
 Delray Beach, FL 33444  
 561-865-7749

<b>PROPOSAL SUBMITTED TO:</b>			<b>PHONE:</b>	<b>DATE:</b>
LM Heavy Civil			(941) 379-3404	12/5/17
<b>STREET:</b>			<b>CLIENT CONTACT:</b>	
1100 Park Central Blvd, Suite 3800			Ivey Spivey	
<b>CITY:</b>	<b>STATE:</b>	<b>ZIP:</b>	<b>CLIENT EMAIL ADDRESS:</b>	
Pompano Beach	FL	33064	ispivey@lmheavycivil.com	
<b>PROJECT MANAGER/DPM:</b>		<b>Email:</b>	<b>PHONE:</b>	<b>FAX:</b>
Thomas Ries/Nick Gadbois		tries@esassoc.com	(561) 865-7749	

## **SCOPE OF WORK: ESA Scheda Proposal Number : P171166.00**

- Provide certified manatee watch biologists for ten hours per day/five days per week for up to three months.
- Monitoring will be conducted from the land and ESA Scheda scientists will submit the corresponding reports to U.S. Fish and Wildlife Service (FWS) and Florida Fish and Wildlife Conservation Commission (FWC).
- The per day rate is based on an environmental technician conducting the surveys. If the Florida Department of Environmental Protection requires a higher level certification, the rate will reflect the cost of a senior scientist (\$80/ hour).

**WE PROPOSE TO FURNISH THE ABOVE SCOPE OF WORK FOR A SUM OF:**

\$600/per ten-hour day

Payable as follows: Lump Sum.

ESA Scheda Authorized Signer: 

## **ACCEPTANCE OF SCOPE AND FEE/CONTRACT**

The above price, specifications and conditions are satisfactory and hereby accepted. You are authorized to do work as specified. Payment will be made as outlined above

Signature

Thomas Ries Const. Mgr.

Date

December 08/2017



A1604

JAN 08 2013



5561 Florida Mining Boulevard South, Jacksonville, FL 32257 • Phone: 904.296.0757 • Fax: 904.296.0748

**INVOICE**

Remit To: P.O. Box 25316, Tampa, FL 33622-5316

December 29, 2017

Project No: 0950.1700029.0000

Invoice No: 00286965

LM Heavy Civil Construction  
100 Hancock Street  
Suite 901  
Quincy, MA 02171

**Terms: Net 30 days**  
We accept American Express, Visa,  
Master Card, Discover, and ACH

Project 0950.1700029.0000 Port of Palm Beach Berth 17 PDA - Rivier

Location:

Professional Services through December 31, 2017

**Unit Billing**

PDA Testing Day Rate

(12/11, 12/12, 12/13, 12/14, 12/15)

5.0 Days @ 1,500.00

7,500.00

**Total Units**

**7,500.00**

**7,500.00**

**Total this Invoice**

**\$7,500.00**

Thank you for your business!

Please contact Josh Adams with any invoice questions - 904-296-0757

A1604

JAN 08 2013

# UNIVERSAL ENGINEERING SCIENCES

5561 Florida Mining Boulevard South, Jacksonville, FL 32257 • Phone: 904.296.0757 • Fax: 904.296.0748

## INVOICE

Remit To: P.O. Box 25316, Tampa, FL 33622-5316

November 30, 2017

Project No: 0950.1700029.0000

Invoice No: 00283768

LM Heavy Civil Construction  
100 Hancock Street  
Suite 901  
Quincy, MA 02171

**Terms: Net 30 days**  
We accept American Express, Visa,  
Master Card, Discover, and ACH

Project 0950.1700029.0000 Port of Palm Beach Berth 17 PDA - Rivier  
Location:

**Professional Services through November 30, 2017**

**Unit Billing**

Foundation Certifications per Bent (Inner and Middle Dolphin)	2.0 Each @ 500.00	1,000.00	
PDA Data Analysis & Report per pile	10 12.0 Each @ 500.00	6,000.00	5,000
PDA Testing Day Rate (10/31, 11/2, 11/3, 11/4, 11/5, 11/6, 11/7, 11/8, 11/9, 11/10, 11/11, 11/12, 11/13, 11/14, 11/15, 11/16, 11/17, 11/21)	9 13.0 Days @ 1,500.00	19,500.00	13,500
Pile Inspector - (11/4, 11/5, 11/7, 11/8)	4.0 hours @ 550.00	2,200.00	2,200
WEAP and Report New Hammer (9/13, 10/25)	2.0 each @ 750.00	1,500.00	<del>2,200</del> \$20,700
<b>Total Units</b>		<b>37,700.00</b>	<b>37,700.00</b>
	<b>Total this Invoice</b>		<b>\$37,700.00</b>

Thank you for your business!

Please contact Josh Adams with any invoice questions - 904-296-0757

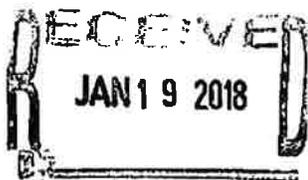
① 2 PDA PER CONTRACT OR 4 DAYS.

Johnbro

A1604



# INVOICE



Invoice No.: LMH001  
Customer No: LMH  
Date: 11/15/17

4316 New River Hills Parkway  
Suite 8  
Valrico, FL 33596  
Tel: (813)-643-3459  
Fax: (813)-643-6029

**BILL TO**

LM Heavy Civil Construction, LLC  
4440 PGA Boulevard #600  
Palm Beach Gardens FL 33410  
Attn: Mr. Francesco Sidoti  
Tel: 754-581-2074

QTY	QTY UM	DESCRIPTION	UNIT RATE	TOTAL
8	HR	Work on 10/16 and 10/20	\$ 950.00	\$ 7,600.00
17	HR	Work on 10/23, 10/24, 10/25, 10/26, 10/27	\$ 950.00	\$ 16,150.00
6	HR	Work on 11/1 and 11/3	\$ 950.00	\$ 5,700.00
8	HR	Work on 11/6, 11/7, 11/9, 11/10, 11/11	\$ 950.00	\$ 7,600.00
24	Days	Pipe Roller Rental 10/16 through 11/11	\$ 500.00	\$ 12,000.00
			\$ -	\$ -
			\$ -	\$ -

Subtotal	\$ 49,050.00
Taxable	\$ -
Tax rate	Incl.
Tax due	\$ -
Other	\$ -
<b>TOTAL Due</b>	<b>\$ 49,050.00</b>

**OTHER COMMENTS**

- Total payment due in 30 days
- Please include the invoice number on your check

Make all checks payable to Johnson Bros. Corp

If you have any questions about this invoice, please contact Kyle Humphreys, (727) 409-4209 [Khumphreys@johnson-bros.com](mailto:Khumphreys@johnson-bros.com)

**Thank You For Your Business!**

*0 DAYS WELUANG PLUGS.*



3868 job work order

CTOPS

carbonless • 3-part

Job Work Order

DATE OF ORDER

CUSTOMER'S ORDER NO.	PHONE	MECHANIC	HELPER	STARTING DATE 10/23/17
BILL TO LM HEAVY CIVIL				ORDER TAKEN BY
ADDRESS PORT OF PALM BEACH				<input type="checkbox"/> DAY WORK
CITY				<input type="checkbox"/> CONTRACT
JOB NAME AND LOCATION 36P1114				<input type="checkbox"/> EXTRA
			JOB PHONE	

DESCRIPTION OF WORK			
10-23-17	- MOVE PIPE W/ TRAILER AND LOADER → 2 HRS		
	- UNLOAD PIPE OFF ROLLERS → 30 MINUTES		
	- <del>UN</del> LOAD PIPE ON ROLLERS → 30 MINUTES		
	- MOVE PIPE TOGETHER TO BE LOADED → 30 MINUTES		
10-24-17	- REMOVE PIPE FROM ROLLERS, PUT PIPE ON ROLLERS	TOTAL 3.5 HRS	
		TOTAL 1 HR	
10-25-17	- REMOVE AND REPLACE PIPE TO BE TESTED → 1 HR		
	- REMOVE AND REPLACE PIPE TO BE TESTED → 1 HR		
	- UNLOAD 36A 5 FT PIPE OFF TRUCK → 1 HR		
		TOTAL 3 HRS	
10-26-17	- LOAD 4 PIPES ON BARGE AND PUT TWO BOTTOM HALF IN ROLLERS → 2 HR		
		TOTAL 2 HR	
		TOTAL MATERIALS	
		TOTAL LABOR	
		TAX	
DATE COMPLETED	WORK ORDERED BY LM HEAVY CIVIL	TOTAL AMOUNT	

I hereby acknowledge the satisfactory completion of the above described work.

SIGNATURE: \_\_\_\_\_

CTOPS 2008

ORIGINAL

- NO ONE HOME
- TOTAL AMOUNT DUE FOR ABOVE WORK; OR
- TOTAL BILLING TO BE MAILED WHEN JOB FINISHED.

3868 job work order

TOPS

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Job Work Order

DATE OF ORDER

CUSTOMER'S ORDER NO.	PHONE	MECHANIC	HELPER	STARTING DATE
BILL TO				ORDER TAKEN BY
ADDRESS Continued FROM WEEK STARTING 10-23-17				<input type="checkbox"/> DAY WORK
CITY				<input type="checkbox"/> CONTRACT
JOB NAME AND LOCATION				<input type="checkbox"/> EXTRA
JOB PHONE				

DESCRIPTION OF WORK			
10-27-17			
- MOVE PSE W/ TRAILER AND LOADER			
1 <sup>st</sup> LOAD - 3 @ 9 FT → 2.5 HRS			
2 <sup>nd</sup> LOAD - 3 @ 63.5 FT → 2 HRS			
3 <sup>rd</sup> LOAD - 3 @ 63.5 FT → 1.5 HRS			
4 <sup>th</sup> LOAD - 2 @ 63.5 FT → 1.5 HRS			
TOTAL 7.5 HRS			
WEEKLY TOTAL: 17 HRS			
		TOTAL MATERIALS	
		TOTAL LABOR	
		TAX	
DATE COMPLETED	WORK ORDERED BY	TOTAL AMOUNT	
10 / 27 / 17			

I hereby acknowledge the satisfactory completion of the above described work.

- NO ONE HOME
- TOTAL AMOUNT DUE FOR ABOVE WORK; OR
- TOTAL BILLING TO BE MAILED WHEN JOB FINISHED.

SIGNATURE: \_\_\_\_\_

TOPS 3868

ORIGINAL

01-14

3868 job work order

CTOPS

carbonless • 3-part

Job Work Order

DATE OF ORDER

CUSTOMER'S ORDER NO.	PHONE	MECHANIC	HELPER	STARTING DATE 10 / 30 / 17
BILL TO LM HEAVY CONCRETE			ORDER TAKEN BY	
ADDRESS PORT OF PALM BEACH			<input type="checkbox"/> DAY WORK	
CITY			<input type="checkbox"/> CONTRACT	
JOB NAME AND LOCATION BERTH 14			<input type="checkbox"/> EXTRA	
			JOB PHONE	

DESCRIPTION OF WORK	
11-1-17	
- REMOVED 2EA 102 FT PIPE OFF ROLLERS → 1 HR	
- PLACED 2EA 51 FT PIPE ON ROLLERS AND PUT TOGETHER → 0.5 HR	
- PLACED 2EA 63.5 FT PIPE ON ROLLERS AND PUT TOGETHER → 0.5 HR	
- LOAD CRANE MATS ON BARGE → 1 HR	
/ TOTAL 3 HRS	
* 11-3-17	
- REMOVE 102 FT PIPE OFF ROLLERS, REPLACE W/ 2-63.5 FT PIPE → 1 HR	
- REMOVE 127 FT PIPE OFF ROLLERS, REPLACE W/ 2-63.5 FT PIPE → 1 HR	
- PUT HALVES TOGETHER TO BE WELDED → 1 HR	
/ TOTAL 3 HRS	
WEEKLY TOTAL - 6 HRS	
	TOTAL MATERIALS
	TOTAL LABOR
	TAX
DATE COMPLETED	WORK ORDERED BY LM HEAVY CONCRETE
	TOTAL AMOUNT

I hereby acknowledge the satisfactory completion of the above described work.

SIGNATURE: \_\_\_\_\_

- NO ONE HOME
- TOTAL AMOUNT DUE FOR ABOVE WORK, OR
- TOTAL BILLING TO BE MAILED WHEN JOB FINISHED.

CTOPS 0868

ORIGINAL

01-14

3868 job work order

TOPS

carbonless • 3-part

Job Work Order

DATE OF ORDER

CUSTOMER'S ORDER NO.	PHONE	MECHANIC	HELPER	STARTING DATE 11/06/17
BILL TO LM HEAVY CIVIL				ORDER TAKEN BY CLAY
ADDRESS PORT OF PALM BEACH				<input checked="" type="checkbox"/> DAY WORK
CITY				<input type="checkbox"/> CONTRACT
JOB NAME AND LOCATION BERTH 17 14				<input type="checkbox"/> EXTRA
			JOB PHONE	

DESCRIPTION OF WORK		TOTAL MATERIALS	TOTAL LABOR	TAX	TOTAL AMOUNT
* 11-06-17	- MOVE 2EA 127 FT PIPES OFF ROLLERS → 1 HR - PUT 2EA 102 FT PIPE ON ROLLERS → 1 HR TOTAL 2 HRS				
* 11-07-17	- PUT 102 FT PIPE ON BARGE → 1 HR TOTAL 1 HR				
11-09-17	- PUT 102 FT PIPE ON BARGE AND PUT 2EA 127 FT PIPE IN ROLLERS → 1 HR TOTAL 1 HR				
* 11-10-17 HPS = 500	- UNLOAD HPSI VIBRO AND POWER UNIT → 1 HR TOTAL 1 HR				
11-11-17	- LOAD 3 PIPE ON SECTIONAL BARGE - SET 2 PIPE IN SPICE ROLLERS / TOTAL 3 HR				
WEEKLY TOTAL: 8 HR					
DATE COMPLETED 11/11/17	WORK ORDERED BY LM HEAVY CIVIL				

I hereby acknowledge the satisfactory completion of the above described work.

SIGNATURE: \_\_\_\_\_

TOPS 3868

ORIGINAL

- NO ONE HOME
- TOTAL AMOUNT DUE FOR ABOVE WORK; OR
- TOTAL BILLING TO BE MAILED WHEN JOB FINISHED.



EQUIPMENT CORPORATION OF AMERICA  
 P.O. Box 306, Coraopolis, PA 15108  
 Phone: (412) 264-4480  
 Fax: (412) 264-1158

*A1604*  
 NOV 15 2017

PHILADELPHIA  
 PITTSBURGH  
 WASHINGTON, D. C.  
 BOSTON  
 JACKSONVILLE

**RENTAL INVOICE**

Account# 2530	Order# 54295	Brc 5	Sls 502
Date 11-10-2017		Invoice# 50004431	Page 1 of 1

Sold To:

561 MB 0.423 E0445X 10725 D3026841367 S2 P4818457 0001:0001

Ship To:



LM HEAVY CIVIL CONSTRUCTION  
 100 HANCOCK ST FL 9  
 QUINCY MA 02171-1745

LM HEAVY CIVIL CONSTRUCTION  
 PORT OF PALM BEACH-BERTH 17  
 270 MARTIN LUTHER KING JR BLVD.  
 RIVIERA BEACH, FL 33404

Ship-via CUST-ARRANGED

Entered by noernik	Customer Purchase Order 025255/LMH JOB 16-00-004	Customer Contact F.SIDOT/P.HEWES	Ord date 11-09-2017
Model	Serial Number	Equip ID	Customer Job number
			Customer Phone # 617-845-8000

Ord	Ship	B/O Part Number	Description	Unit Price	UM	Extended
1		Id# H430-759091 Model - 500 HPSI 500 VIBRATORY HAMMER W PWR PK	From: 11-09-17 Serial#: 2975/2976 mtr out			8,600.00
1		Id# H4CB-500984 Model - BEAM HPSI 9FT CAISSON BEAM	From: 11-09-17 Serial#: HPH-1464 mtr out			580.00
1		Id# H4CB-501708 Model - CLAMP HPSI 125 TON CAISSON CLAMP	From: 11-09-17 Serial#: 2585 mtr out			510.00
1		Id# H4CC-501408 Model - CLAMP HPSI 125 TON CAISSON CLAMP	From: 11-09-17 Serial#: HPS-2143 mtr out			510.00
Sub Total						10,200.00
FL FLORIDA SALES TAX						661.99

*20 DAY RENT PERIOD -*  
*RENT. 10,861.99 / 160 = 67.87*  
*OP COST. 74.00*  
*141.87*

PLEASE REMIT PAYMENT WITHIN TERMS TO AVOID 1.5 SERVICE CHARGE, WE REPORT TO ALL CREDIT AGENCIES AVOID BEING REPORTED BY PAYING PROMPTLY!

Amount Due 10,861.99  
 Due By: 12/10/17



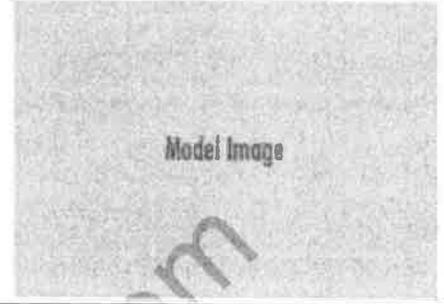
CONSTRUCTION & MINING / SALES . SERVICE . RENTAL

TO VIEW ONLINE	<a href="http://ecanet.billtrust.com">http://ecanet.billtrust.com</a>
ENROLLMENT TOKEN	DFS DKV FKE

**Rental Rate Blue Book®**

February 8, 2018

**Hydraulic Power Sys. 450**  
 Vibratory Hammers/Extractors

 Size Class:  
**150.0 - 199.9 Tons**  
 Weight:  
**32,750 lbs.**

**Configuration for 450**

Horsepower	<b>540 hp</b>	Power Mode	<b>Diesel</b>
Maximum Driving Force	<b>164 t</b>		

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$10,670.00	\$2,990.00	\$750.00	\$115.00	\$74.00	\$134.63
<b>Adjustments</b>						
Region ( Florida DOT: 98.9%)	(\$117.37)	(\$32.89)	(\$8.25)	(\$1.26)		
Model Year (2018:100%)	-	-	-	-		
Ownership (100%)	-	-	-	-		
Operating (100%)	-	-	-	-		
<b>Total:</b>	<b>\$10,552.63</b>	<b>\$2,957.11</b>	<b>\$741.75</b>	<b>\$113.74</b>	<b>\$74.00</b>	<b>\$133.96</b>

**Non-Active Use Rates**

	Hourly
Standby Rate	\$29.98
Idling Rate	\$108.67

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	48%	\$5,121.60/mo
Overhaul (ownership)	34%	\$3,627.80/mo
CFC (ownership)	7%	\$746.90/mo
Indirect (ownership)	11%	\$1,173.70/mo
Fuel (operating) @ 2.57	66%	\$48.71/hr

Revised Date: 1st Half 2018

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for PHIL HEWES (phewes@lmheavycivil.com)



EQUIPMENT CORPORATION OF AMERICA  
 P.O. Box 306, Coraopolis, PA 15108  
 Phone: (412) 264-4480  
 Fax: (412) 264-1158

DEC 04 2017

A1604  
 PHILADELPHIA  
 PITTSBURGH  
 WASHINGTON, D. C.  
 BOSTON  
 JACKSONVILLE

**RENTAL INVOICE**

Account# 2530	Order# 54354	Brc 5	Sls 502
Date 11-27-2017		Invoice# 50004494	Page 1 of 1

Sold To:

1148 1 MB 0.423 E0432X 10696 03071224985 S2 P4855225 0001:0001

Ship To:



LM HEAVY CIVIL CONSTRUCTION  
 100 HANCOCK ST FL 9  
 QUINCY MA 02171-1745

LM HEAVY CIVIL CONSTRUCTION  
 PORT OF PALM BEACH-BERTH 17  
 270 MARTIN LUTHER KING JR BLVD.  
 RIVIERA BEACH, FL 33404

Ship via CUST ARRANGED

Entered by noemik	Customer Purchase Order 021417/LMH JOB 16-00-004	Customer Contact F.SIDOT/P.HEWES	Ord date 11-24-2017
Model	Serial Number	Equip ID	Customer Job number
			Customer Phone # 617-845-8000

Ord	Ship	B/O	Part Number	Description	Unit Price	UM	Extended
1			Id# H230-500030 Model - D30-32 DELMAG D30-32 HAMMER	From: 11-24-17 Serial#: 7557 mtr out			3,450.00
1			Id# H012-500705 Model - HPH-1200 POWER PACK FOR DAWSON VIBRO HPH1200	From: 11-24-17 Serial#: ABI/DAWS mtr out			3,365.00
1			Id# H6FP-501692 Model - PIPE PILECO 16IN-36IN PIPE INSERT	From: 11-24-17 Serial#: OH42-016 mtr out			1,185.00
2X			PILECO U42 LEAD, 40FT TOP (40T-031)		1,680.0		1,680.00
1			PILECO U42 LEAD, 20FT MID (20I-030)	} 80' 120' ON SITE	840.0		840.00
1			PILECO U42 LEAD, 15FT MID (15I-002)		630.0		630.00
1			PILECO U42 LEAD, 5FT STAB (05S-002) FROM 11-24-17 THRU 12-21-17		210.0		210.00
Sub Total							11,360.00
FL	FLORIDA SALES TAX						731.59

HAMMER + LEADS. 12,091.59 + 1680(1106) = 13,872.39 / 160 = 86.70  
 OPERATING COST 32.60  
 119.30

PLEASE REMIT PAYMENT WITHIN TERMS TO AVOID 1.5 SERVICE CHARGE, WE REPORT TO ALL CREDIT AGENCIES AVOID BEING REPORTED BY PAYING PROMPTLY!

Amount Due 12,091.59  
 Due By: 12/27/17



CONSTRUCTION & MINING / SALES . SERVICE . RENTAL

TO VIEW ONLINE	http://ecanet.billtrust.com
ENROLLMENT TOKEN	DFS DKV FKF

**Rental Rate Blue Book®**

February 8, 2018

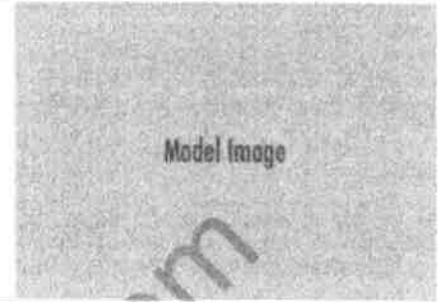
**American Piledriving D30-32**

Diesel Hammers

Size Class:

**50,000 - 74,999 lb**

Weight:

**15,950 lbs.**

**Configuration for D30-32**

Maximum Rated Energy	<b>69898 ft-lb</b>	Hammer Type	<b>Single Acting</b>
Power Mode	<b>Diesel</b>	Horsepower	<b>84</b>

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$7,515.00	\$2,105.00	\$525.00	\$79.00	\$32.60	\$75.30
<b>Adjustments</b>						
Region ( Florida DOT: 98.9%)	(\$82.66)	(\$23.15)	(\$5.77)	(\$0.87)		
Model Year (2017: 99.8%)	(\$14.86)	(\$4.16)	(\$1.04)	(\$0.16)		
Ownership (100%)	-	-	-	-		
Operating (100%)	-	-	-	-		
<b>Total:</b>	<b>\$7,417.48</b>	<b>\$2,077.69</b>	<b>\$518.19</b>	<b>\$77.97</b>	<b>\$32.60</b>	<b>\$74.74</b>

**Non-Active Use Rates**

	<b>Hourly</b>
Standby Rate	\$21.07
Idling Rate	\$50.47

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	31%	\$2,329.65/mo
Overhaul (ownership)	53%	\$3,982.95/mo
CFC (ownership)	6%	\$450.90/mo
Indirect (ownership)	10%	\$751.50/mo
Fuel (operating) @ 2.57	26%	\$8.33/hr

Revised Date: 1st Half 2018

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for PHIL HEWES (phewes@lmheavycivil.com)



EQUIPMENT CORPORATION OF AMERICA  
P.O. Box 306, Coraopolis, PA 15108  
Phone: (412) 264-4480  
Fax: (412) 264-1158

A 1604

PHILADELPHIA  
PITTSBURGH  
WASHINGTON, D. C.  
BOSTON  
JACKSONVILLE

**RENTAL INVOICE**

Account# 2530	Order# 54280	Brc 5	Sls 502
	Date 11-21-2017	Invoice# 50004479	Page 1 of 1

Sold To:

181 1 AB 0.403 E0237 10405 D3080296815 S2 P4843165 0004:0004

Ship To:



LM HEAVY CIVIL CONSTRUCTION  
100 HANCOCK ST FL 9  
QUINCY MA 02171-1745

LM HEAVY CIVIL CONSTRUCTION  
PORT OF PALM BEACH-BERTH 17  
270 MARTIN LUTHER KING JR BLVD.  
RIVIERA BEACH, FL 33404

NOV 28 2017

Ship via CUST ARRANGED

Entered by noemik	Customer Purchase Order 021417/LMH JOB 16-00-004	Customer Contact F.SIDOT/P.HEWES	Ord date 10-24-2017
Model	Serial Number	Equip ID	Customer Job number
			Customer Phone # 617-845-8000

Ord	Ship	B/O Part Number	Description	Unit Price	UM	Extended
-----	------	-----------------	-------------	------------	----	----------

1		Id# H420-501483 Model - 300 HPSI 300 VIBRATORY HAMMER W PWR PK	From: 11-21-17 Serial#: 1188/PP1189 mtr out			7,640.00
1		Id# H4CB-500494 Model - BEAM HPSI 6FT CAISSON BEAM	From: 11-21-17 Serial#: HPS-0801 mtr out			380.00
1		Id# H4CB-501707 Model - CLAMP HPSI 125 TON CAISSON CLAMP	From: 11-21-17 Serial#: 2004 mtr out			590.00
1		Id# H4CC-500036 Model - CLAMP HPSI 125 TON CAISSON CLAMP	From: 11-21-17 Serial#: 1768 mtr out			590.00

Sub Total 9,200.00

FL FLORIDA SALES TAX 602.01

9,802.01 / 160 = 61.26 / HR.

OPERATING COST = 63.70 / HR.

124.96 / HR.

PLEASE REMIT PAYMENT WITHIN TERMS TO AVOID 1.5 SERVICE CHARGE, WE REPORT TO ALL CREDIT AGENCIES AVOID BEING REPORTED BY PAYING PROMPTLY!

Amount Due 9,802.01  
Due By: 12/21/17



CONSTRUCTION & MINING / SALES . SERVICE . RENTAL

TO VIEW ONLINE	<a href="http://ecanet.billtrust.com">http://ecanet.billtrust.com</a>
ENROLLMENT TOKEN	DFS DKV FKE

**Rental Rate Blue Book®**

February 8, 2018

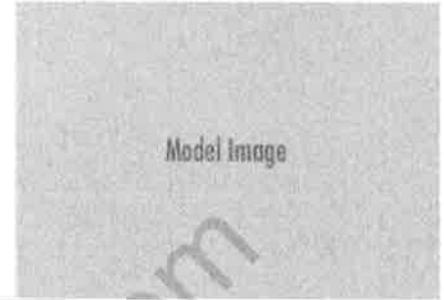
**Hydraulic Power Sys. 300**

Vibratory Hammers/Extractors

Size Class:

**100.0 - 149.9 Tons**

Weight:

**23,500 lbs.**

**Configuration for 300**

Maximum Driving Force	<b>109 t</b>	Horsepower	<b>420 hp</b>
Power Mode	<b>Diesel</b>		

**Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$8,765.00	\$2,455.00	\$615.00	\$92.00	\$63.70	\$113.50
<b>Adjustments</b>						
Region ( Florida DOT: 98.9%)	(\$96.41)	(\$27.00)	(\$6.76)	(\$1.01)		
Model Year (2018: 100%)	-	-	-	-		
Ownership (100%)	-	-	-	-		
Operating (100%)					-	
<b>Total:</b>	<b>\$8,668.59</b>	<b>\$2,428.00</b>	<b>\$608.24</b>	<b>\$90.99</b>	<b>\$63.70</b>	<b>\$112.95</b>

**Non-Active Use Rates**

	Hourly
Standby Rate	\$24.63
Idling Rate	\$87.14

**Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	48%	\$4,207.20/mo
Overhaul (ownership)	34%	\$2,980.10/mo
CFC (ownership)	7%	\$613.55/mo
Indirect (ownership)	11%	\$964.15/mo
Fuel (operating) @ 2.57	59%	\$37.89/hr

Revised Date: 1st Half 2018

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for PHIL HEWES (phewes@lmheavycivil.com)



# EquipmentWatch™

## Custom Rates

6190 Powers Ferry Rd, NW-Suite 320  
Atlanta, GA, 30339

TO: Patrick Frew LM Heavy Civil Construction, LLC

FROM: Myles Harper

Date: 10/14/2016

RE: Blue Book Rental Rates

As per your request, EquipmentWatch has calculated the Custom Blue Book Rates for the following equipment. The outlined Custom Blue Book rates are as follows:

Equipment: Mantis 14010; Cost: \$625,000.00					
Ownership Rates			Operating Rate		
Monthly	Weekly	Daily	Hourly	Hourly Op. Cost	FHWA Rates
\$10,224.30 <i>176 = 58.09</i>	\$2,864.88	\$747.36	\$114.18	\$42.65	\$100.74 ✓

The above rates are based on standard Blue Book methodology and calculations using an acquisition cost and survey data. No adjustment for age is necessary as the above rates are indexed to the acquisition cost. Regional adjustments for Massachusetts have been applied.

If we can be of further assistance please don't hesitate to call us at 800-669-3282.

Sincerely,

Myles Harper  
 Industry Analyst  
 EquipmentWatch  
 Tel. No.: 770-618-0191  
 E-mail: [myles.harper@penton.com](mailto:myles.harper@penton.com)

**Date**  
March 29, 2018

Philippe Hewes  
LM Heavy Civil Construction, LLC  
404 E. Atlantic Blvd., Suite 101  
Pompano Beach, FL 33060

Ref: Berth 17 and Paving Project - Pipe Pile Capacities  
PCN 33 Additional Two Piles at East Dolphin No. 3

Gentlemen:

We are in receipt of your letter dated March 7, 2018 concerning PCN 33 Additional Two Piles at Dolphin No. 3 requesting an additional \$372,888.83 to drive an additional two (2) pipe piles on the Port of Palm Beach District Berth 17 Project. This request for additional compensation and time is denied.

The dolphin piles which were originally designed and included in the contract were to be 18" PCPS piles typically as detailed on drawings W-9 and W-14 and in Specification Section 31 62 13.23. Thirty (30) piles were to be installed as either vertical or battered piles. LMH's lump sum bid for these piles was to be based on 90 foot long piles as specified on drawing W-1 R1, Note 5 Concrete Piles under the Materials section.

Specification Section 31 62 13.23 Prestressed Concrete Piles identifies the contract requirements with respect to the acceptability of the driven piles and the measurement and payment terms. In part, Paragraph C Measurement and Payment states:

"1. There is no separate payment item for the work of this section. Base the Contract Sum on number, size, capacity and dimensions of piles indicated from tip to cutoff, plus not less than 12 inches of overlength for cutting piles at cutoff elevations....

a. Should the total length of piles vary from the lengths shown on the Contract Drawings, .... The contract price will be adjusted on the basis of the unit price bid/contracted for adjustment of pile length as specified in Section 01 22 00, "Unit Prices".

b. The contract price for piling shall include the cost of all necessary equipment.... If, in re-driving, it is found that any pile is not of sufficient length to provide the capacity specified, notify the

ENGINEER, who reserves the right to increase or decrease the total length of piles to be furnished and installed by changing the pile locations or elevations, requiring the installation of additional piles, or directing the omission of piles from the requirements shown and specified. **Payment for piles will be based on successfully installing piles to both the minimum tip elevation and satisfying the acceptance criteria identified herein....**  
(Emphasis added)

Further, Paragraph 1.3 Design and Performance Requirements subparagraph A.1 provides the loading capacity requirement for these piles:

“1. Design Loads: 80 Tons (compression) and 40 Tons (tension) working loads.”

Specification Section 01 22 00 Unit Prices includes an adjustment for the length of the piles if the work shown and required by the Construction Documents is increased or decreased beyond the specified 90 foot length. Specifically, the following agreed unit prices are listed relative to these piles:

“Unit Price No. 1: PCPS Concrete Pile Longer than Indicated

1. Description: Unit price added in accordance with Section 31 62 13.23, “Prestressed Concrete Piles” if longer piles are determined to be required based on load test and ordered by the ENGINEER.
2. Unit of Measurement: Linear Foot

Unit Price No. 2: PCPS Concrete Pile Shorter than Indicated

1. Description: Unit price deducted in accordance with Section 31 62 13.23, “Prestressed Concrete Piles” if shorter piles are determined to be sufficient based on load test and ordered by the ENGINEER.
2. Unit of Measurement: Linear Foot

Unit Price No. 3: Additional PCPS Concrete Piles

1. Description: Unit price added in accordance with Section 31 62 13.23, “Prestressed Concrete Piles” if additional piles are determined to be required and ordered by the ENGINEER. Price to be based on lengths indicated. If this item is elected and piles are longer or shorter the unit prices above shall also apply.
2. Unit of Measurement: Each

Unit Price No. 4: Dynamic Pile Load Test

1. Description: Unit Price added or Deducted in accordance with Section 31 62 01, "Pile Testing" if determined to be required or ordered by ENGINEER.
2. Unit of Measurement: Each"

Section 00 52 00 Paragraph 7.1 states, in part, the following:

"7.1 The District shall pay, and the Contractor shall accept, as full and complete payment for the Contractor's timely performance of its obligations hereunder the following fixed price of **ten million four hundred eighteen thousand five hundred and sixty seven Dollars (\$10,418,567.00)**. The prices set forth in this subparagraph 7.1 shall constitute the Concrete Price, which shall not be modified except by Change Order as provided in this Contract....

7.1.2 For additions to or deductions from the Work, the following unit prices shall be used in adjusting the above prices, as described in Section 01 22 00.

Item No. 1 PCPS Concrete Piles Longer than Indicated (Add)  
\$80 / LF

Item No. 2 PCPS Concrete Piles Shorter than Indicated (Deduct)  
\$50 / LF

Item No. 3 Additional PCPS Concrete Piles at indicated Length  
\$7,200.00 /Each

Item No. 4 Dynamic Pile Load Test  
\$2.00 /Each

...."

The terms of the original contract are clear and the final depth of the piles is determined by the pile capacity achieved by LMH when driving the piles. The final compensation for the final pile lengths installed would be the amount included in lump sum contract amount adjusted by the actual pile lengths as compared to the 90 foot base length. If the actual pile lengths were longer than 90 feet there would be an additional amount. If shorter, there would be a reduction in contract value.

LMH approached the Port with essentially a value engineering proposal to change the number of piles, the size of the piles, and the material of the dolphin piles from concrete to steel to facilitate its construction means and methods. As an incentive, and guarantee, to the Port, LMH stated that no functionality would be lost and that steel piles would be a safer, faster, and a more cost effective alternative to PCPS piles. As a result, a financial incentive would be offered to the Port to allow this change to the contract and LMH agreed to pay for the new design and provide the Port with a credit to its lump sum bid. Notwithstanding that LMH never signed a change order to

incorporate this change into the contract, it is clear that there was an agreement between LMH and the Port and each proceeded as if there was agreement.

LMH letter to the Port of Palm Beach District dated March 15, 2017 states:

“LM Heavy Civil Construction (LMH) has proposed to substitute the dolphin-precast piles for steel piles. LMH has agreed to have AECOM design the steel piles. To expedite the design it has been agreed between LMH, AECOM, and The Port of Palm Beach District that the design cost will be charged to the Port of Palm Beach District (LMH has attached to this letter the estimated cost for this design). LMH will then provide a credit to the Port of Palm Beach District for the AECOM design cost charged to the Port of Palm Beach District.”

The Port directed AECOM to re-design the dolphin piles and change the PCPS piles to steel pipe piles and the Port issued an amendment to AECOM to provide the additional engineering services for a not to exceed price of \$22,558.00. This redesign was provided and consisted of new drawing W-9 R4 Dolphins Plan and Sections and a new specification section 31 62 16 Steel Pipe Piles for Dolphins. This design was provided to LMH for review and resolution of the agreement with the Port.

The overall design intent and the basic philosophy of acceptance of the piles did not change. Drawing W-9 R4 provided LMH the layout of the piles, the number of piles required, and defined the piles as being 32” diameter pipe piles. The total number of piles was reduced from 30 piles to 12 piles; however, the size of the piles was larger. The drawing specifies the minimum tip elevation to be elevation -93 for the inner dolphins and elevation -118 for the outer dolphin. The Allowable Compression Capacity required for the inner dolphin is defined as 120 tons and for the outer dolphin as 200 tons. The Allowable Tension Capacity is specified as 65 tons for the inner dolphin and 150 tons for the outer dolphin.

Specification Section 31 62 16, paragraph 3.7 Unacceptable Piles states:

“A. Unacceptable piles are defined as piles that **fail penetration requirements, capacity requirements**, are placed or cut off in positions beyond specified tolerances, or are damaged.

B. **Replace unacceptable piles with piles that conform to specific requirements at no additional cost to the DISTRICT or alternatively, in lieu of replacing unacceptable piles, additional piles may be placed** in locations other than those shown on the Contract Documents. This alternative may be used only with prior approval of the ENGINEER for each individual location of use. **All costs for design, analysis and construction of such alternative designs shall be at the expense of the CONTRACTOR.** (Emphasis added)

The contract requires LMH to achieve both the minimum tip elevation and the capacity requirement for each pile. This requirement did not change between the original contract with the PDPS piles and the revised steel pipe piles. However, LMH apparently stopped driving the piles at the minimum tip elevation knowing that it had not achieved the required capacities for each pile.

The piles as installed are therefore classified as unacceptable piles. LMH has two options. LMH can drive the piles deeper to achieve the capacity or LMH can place additional piles. In either event, all costs for design, analysis and construction are at the expense of LMH. LMH owes the Port for the costs the Port has incurred to perform an analysis and in part, to provide an additional option to LMH to drive two (2) additional piles to achieve the minimum capacity requirements for the dolphins. This additional cost will be provided to LMH at the appropriate time after LMH has completed its contractual requirements for the installation of these piles and after any additional analysis has been performed to assure that they are acceptable to the Port. At that time the total design costs can be quantified.

In order to ensure that the Port was not going to incur additional cost directly related to this change in pile type, the value engineering proposal from LMH would have included a unit price cost to replace the unit price costs for the PCPS piles as defined in the contract specification Sections 00 52 00 and 01 22 00 or LMH accepted the same unit prices as stated for the PCPS piles in direct substitution of the steel pipe piles. It is not reasonable or anticipated that the Port would incur any additional costs beyond what it would have incurred in the original contract using PCPS piles and that was the basis for the Port accepting LMH's proposal to change the pile type.

LMH was fully aware of the risks associated with the substitution of steel pipe piles for the PCPS piles and assured the Port that this was feasible. LMH was fully in control of the means and methods of installation. Finally, LMH is responsible to perform the work in accordance with the contract requirements, which specifically included achieving the design loading criteria for each pile regardless of the type of pile. LMH has not fulfilled its contractual responsibilities related to the dolphin piles.

We request that you advise us as soon as possible on how and when LMH intends to complete its contract related to the dolphin piles. All delays in completion are the responsibility of LMH and the Port will not accept any additional cost or provide any time extension for LMH's failure to perform in accordance with the contract documents. No change to the contract is warranted and compensation for the installation of these piles will be made based on the contract terms upon completion of the contract work.

The Port will consider a reasonable adjustment to the lump sum amount based on the contract unit price adjustments as originally intended in accordance with Section 00 52 00 subparagraph 7.1.2. Any adjustment will first be offset by the design and analysis costs incurred or to be incurred by the Port.

This claim for additional costs of \$372,885.83 as presented is denied.



Sincerely,

A handwritten signature in blue ink that reads "Karen D. Brandon".

Karen D. Brandon, PE

KDB/dw

cc: Manuel Almira  
Jose Soler  
Diana Lopez  
John Carel

**Date**  
March 29, 2018

Philippe Hewes  
LM Heavy Civil Construction, Inc.  
1100 Park Central Blvd., Suite 3800  
Pompano Beach, FL 33064

**Subject:** Port of Palm Beach District – Berth 17 and Paving Project  
Pipe Pile Capacities - PCN 33 PDA, Plugs and Down Time Due to Piles Not Reaching Capacities

Gentlemen:

We are in receipt of your letter dated March 12, 2018 concerning PCN 33 PDA, Plugs and Down Time Due to Piles Not Reaching Capacities requesting an additional \$560,542.15 on the Port of Palm Beach District Berth 17 Project. This request for additional compensation and time is denied.

Similar to our response to LMH's claim for additional compensation for two (2) additional dolphin piles, LMH has failed to recognize that LMH has not performed this work in accordance with the contract requirements and it was LMH that approached the Port with essentially a value engineering proposal to change the number of piles, the size of the piles, and the material of the dolphin piles from concrete to steel to facilitate construction means and methods. As an incentive, and guarantee, to the Port, LMH stated that no functionality would be lost and that steel piles would be safer, faster, and a more cost effective alternative to PCPS piles. As a result, a financial incentive would be offered to the Port to allow this change to the contract and LMH agreed to pay for the new design and provide the Port with a credit to its lump sum bid. Notwithstanding that LMH never signed a change order to incorporate this change into the contract, it is clear that there was an agreement between LMH and the Port and each proceeded as if there was agreement.

Specification Section 31 62 13.23 Prestressed Concrete Piles identifies the contract requirements with respect to the acceptability of the driven piles and the measurement and payment terms. In part, Paragraph C Measurement and Payment states:

“1. There is no separate payment item for the work of this section. Base the Contract Sum on number, size, capacity and dimensions of piles indicated from tip to cutoff, plus not less than 12 inches of overlength for cutting piles at cutoff elevations....

a. Should the total length of piles vary from the lengths shown on the Contract Drawings,.... The contract price will be adjusted on the basis of the unit price bid/contracted for adjustment of pile length as specified in Section 01 22 00, “Unit Prices”.

b. The contract price for piling shall include the cost of all necessary equipment.... If, in re-driving, it is found that any pile is not of sufficient length to provide the capacity specified, notify the ENGINEER, who reserves the right to increase or decrease the total length of piles to be furnished and installed by changing the pile locations or elevations, requiring the installation of additional piles, or directing the omission of piles from the requirements shown and specified. **Payment for piles will be based on successfully installing piles to both the minimum tip elevation and satisfying the acceptance criteria identified herein....** (Emphasis added)

The terms of the original contract are clear and the final depth of the piles is determined by the pile capacity achieved by LMH when driving the piles.

LMH letter to the Port of Palm Beach District dated March 15, 2017 states:

“LM Heavy Civil Construction (LMH) has proposed to substitute the dolphin-precast piles for steel piles. LMH has agreed to have AECOM design the steel piles. To expedite the design it has been agreed between LMH, AECOM, and The Port of Palm Beach District that the design cost will be charged to the Port of Palm Beach District (LMH has attached to this letter the estimated cost for this design). LMH will then provide a credit to the Port of Palm Beach District for the AECOM design cost charged to the Port of Palm Beach District.”

The Port directed AECOM to re-design the dolphin piles and change the PCPS piles to steel pipe piles and the Port issued an amendment to AECOM to provide the additional engineering services for a not to exceed price of \$22,558.00. This redesign was provided and consisted of new drawing W-9 R4 Dolphins Plan and Sections and a new specification section 31 62 16 Steel Pipe Piles for Dolphins. This design was provided to LMH for review and resolution of the agreement with the Port.

The overall design intent and the basic philosophy of acceptance of the piles did not change. Drawing W-9 R4 provided LMH the layout of the piles, the number of piles required, and defined the piles as being 32” diameter pipe piles. The total number of piles was reduced from 30 piles to 12 piles; however, the size of the piles was larger. The drawing specifies the minimum tip elevation to be elevation -93 for the inner dolphins and elevation -118 for the outer dolphin. The Allowable Compression Capacity required for the inner dolphin is defined as 120 tons and for the outer dolphin as 200 tons. The Allowable Tension Capacity is specified as 65 tons for the inner dolphin and 150 tons for the outer dolphin.

Specification Section 31 62 16 paragraph 1.6 Quality Assurance, subparagraph B states:

“B. In accordance with the provisions of *Section 31 62 01, “Pile Testing”* and *Section 01 40 00, “Quality Requirements”*, engage the services of a Professional Engineer (CONTRACTOR’s Engineer) licensed in the State of Florida, who will be present on the site at all times during pile installations to ensure and certify the piles are installed in accordance with design and code

requirement. The CONTRACTOR's Engineer shall prepare and submit a report of the pile driving and fulfill all other requirements specified elsewhere in this specification."

Further, in subparagraph D:

"D. Selection of pile driving equipment and installation of piles shall be under the direction of the CONTRACTOR's Engineer."

Section 3.5 Test Piles, Paragraph A Dynamic Pile Test, subparagraph 3 states:

"3. Prior to driving test piles, the CONTRACTOR's Engineer shall submit a wave equation analysis using the proposed driving system. Based on this analysis, the CONTRACTOR shall determine order lengths and proposed driving criteria for the test piles."

In fact, the CONTRACTOR's Engineer, Universal Engineering Sciences, Inc. did prepare and submit its Preliminary Wave Equation Analyses in a letter dated October 25, 2017. Within this report, Universal identified the driving system, the pile information, the subsurface information it used and then performed the required wave equation analysis. Universal concluded the following:

"Based on our examination of the wave equation analyses, the proposed Pileco D30 open ended diesel hammer is capable of installing the 32-inch steel open-ended pipe to the ultimate capacities without overstressing the piles and in accordance with the limits defined in **Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction Section 455 Item B: Piling**. Note however, in a fully plugged condition, that practical refusal may be achieved prior to obtaining the minimum tip elevation. Note that final acceptance of this hammer will be performance based during the test pile program." (Emphasis in original letter.)

Per the contract requirements, the installation of the piles is under the direction of LMH's engineer, which very specifically performed analyses for open ended piles and plugged condition and made its recommendations to LMH. It is noted that this is a condition specific to steel pipe piles and would not have been a consideration for the specified PCPS concrete piles and a condition that LMH must have considered when suggesting this change as a value engineering proposal. LMH and the CONTRACTOR's Engineer made the determination as to whether the piles should be driven as open ended or plugged to meet the design criteria as required by the contract. This is not a change to the contract or a changed condition, but was a known condition by LMH and a risk considered that it accepted when suggesting the change to steel pipe piles.

LMH stated in its March 12, 2018 letter:

"All piles were driven to design tip elevations. Not a single pile of the twelve driven reached design capacities."

We agree, however that is not what was required to be done by the contract and LMH did not meet the contract requirements to meet the minimum tip elevation and the design capacity. Specification Section 31 62 16, paragraph 3.7 Unacceptable Piles states:

“A. Unacceptable piles are defined as piles that **fail penetration requirements, capacity requirements**, are placed or cut off in positions beyond specified tolerances, or are damaged.

B. **Replace unacceptable piles with piles that conform to specific requirements at no additional cost to the DISTRICT or alternatively, in lieu of replacing unacceptable piles, additional piles may be placed** in locations other than those shown on the Contract Documents. This alternative may be used only with prior approval of the ENGINEER for each individual location of use. **All costs for design, analysis and construction of such alternative designs shall be at the expense of the CONTRACTOR.**” (Emphasis added)

The contract requires LMH to achieve both the minimum tip elevation and the capacity requirement for each pile. This requirement did not change between the original contract with the PCPS piles and the revised steel pipe piles. However, LMH apparently stopped driving the piles at the minimum tip elevation knowing that it had not achieved the required capacities for each pile.

Section 3.8 Corrections of Deficiencies specifies the requirements in the contract:

“A. General:

1. Notify the ENGINEER immediately, in writing, of the failure of a pile to meet any requirement of this Section. Include with such written notification **all information required for the evaluation of remedial measures, including all information required for redesign.**

2. If it is determined that a pile does not meet the requirement of this Section, perform all remedial work associated with the deficient pile....

.B Pile Analysis and Redesign

1. If a pile fails to comply with the alignment or location requirements of this Section, the CONTRACTOR's Engineer shall calculate and submit to the ENGINEER for approval, the load capacity requirements of that pile based on the actual, “as-driven” alignment and location....

2. In the case of a pile with some deficiency that affects load capacity, the CONTRACTOR's Engineer shall calculate the load capacity requirements of that pile, based on its actual “as-driven” location and alignment. If the calculation indicates that the loading on the pile exceeds some reduced allowable loading less than the design load, including zero loading, as determined in the sole

judgement of the ENGINEER, then the CONTRACTOR shall perform such remedial work as the ENGINEER may approve, including, but not limited to re-driving piles, furnishing and driving additional piles at locations approved by the ENGINEER and modifying pile caps and/or superstructure.

3. If a pile fails to comply with any other requirement of this Section and the ENGINEER determines that modifications to pile caps or superstructure, or the driving of additional piles is necessary, the CONTRACTOR's Engineer shall perform all required redesign and detailing and submit to the ENGINEER for approval.

C. The CONTRACTOR at their option and at any time they determine that a pile will not satisfy the requirements of this Section, including encountering an underground obstruction, may, subject to the notification provisions hereinbefore, abandon such pile and replace it with a new pile or piles rather than await direction or approval from the ENGINEER...."

As admitted by LMH the piles "as-driven" piles did not meet the capacity requirements of the contract. In fact, the alignment and location were also incorrect in addition to the piles not meeting the design capacities. These deficiencies directly affect the remedial work required and are the sole responsibility of LMH. The installation of the pipe pile plugs was a decision by the CONTRACTOR's Engineer and LMH in an attempt to meet the design requirements of the contract as was indicated by the CONTRACTOR's Engineer analyses and is the responsibility of LMH.

The additional PDA tests served two purposes. First, they helped fulfill LMH's requirement to provide to the ENGINEER the CONTRACTOR's Engineer calculation and submission of the load capacity requirements of that pile based on the actual, "as-driven" alignment and location. Second, by performing individual testing on each pile, more information is available to the design engineer and the code required safety factors in the design process can be reduced, which allowed the inner dolphin piles to be determined to be acceptable as-driven. This additional testing was to the benefit of LMH and the CONTRACTOR'S Engineer in their evaluation. It is our opinion that this is a necessary part of the cost necessary to evaluate the "as-driven" installation by the CONTRACTOR's Engineer. However, referring to Section 00 52 00 Paragraph 7 Fixed Price and Contract Payment, the agreed upon unit price for Dynamic Pile Load Tests in the contract is \$2.00 each. Ten (10) additional PDA tests therefore have a total value of \$20.00 if determined to be directed by the ENGINEER.

LMH also states that in addition to the pipe pile plugs being installed, that each PDA test requires multiple strikes requiring the equipment and crews to be placed on standby. The delays are the responsibility of LMH, not the Port. The installation of the pipe pile plugs was a decision by LMH and the CONTRACTOR's Engineer to meet the design pile capacity requirements. The delay due to the restriking required by the PDA tests is strictly a function of the test. This cost and delay was required by the deficiencies of LMH in installing the piles not in accordance with the contract and therefore LMH's responsibility. With respect to standby time, LMH was responsible for the time and cost for the installation, re-design, and remedial work for these piles. As noted above, LMH had the option to proceed at any time LMH determined that a pile did not satisfy the requirements of the Steel Pipe Piles of Dolphins Section. Specifically,

LMH could have abandoned such pile and replaced it with a new pile or piles rather than wait for direction or approval from the ENGINEER. Again this is the responsibility of LMH, not the Port.

Specification Section 31 62 16, paragraph 3.8 Correction of Deficiencies, subparagraph F. Cost of Analysis, Redesign and Remedial Measures states:

“1. The ENGINEER will determine if pile deficiency is due to unavoidable field conditions, such as obstructions, or due to CONTRACTOR operations.

2. Deficiencies due to CONTRACTOR's Operations: It is the intent of the Contract that the cost of the entire analysis, whether or not it results in the determination of the necessity for corrective measures and remedial measures including additional piles, modification to pile caps and superstructure, spudding natural or man-made obstructions, work associated with abandonment of piles whether necessary or for the CONTRACTOR's convenience shall be borne by the CONTRACTOR. The CONTRACTOR shall also bear the cost of redesign necessitated by damaged piles and piles installed in misdriven locations.”

The pile deficiencies are not due to unavoidable field conditions. They are due to LMH operations. LMH is responsible to bear the costs and time related to resolving the pile deficiencies. Further, the Port is also entitled to recover all costs incurred by AECOM related to the analysis and redesign necessitated by the unacceptable dolphin pile installation.

This claim for additional costs of \$560,542.15 as presented is denied.

Sincerely,



Karen D. Brandon, PE  
Senior Project Manager

KDB/dw

cc: Manuel Almira  
Jose Soler  
Diana Lopez  
John Carel



**Board of Commissioners**

Blair J. Ciklin  
Jean L. Enright  
Peyton W. McArthur  
Wayne M. Richards  
Katherine M. Waldron

**Executive Director**  
Manuel Almira, PPM®

April 10, 2018

COL Jason A. Kirk  
U.S. Army Corps of Engineers Commander  
Jacksonville District  
701 San Marco Blvd  
Jacksonville, FL 32207

Subject: Port of Palm Beach Emergency Dredging

Dear Colonel Kirk,

In February 2018, the U.S. Army Corp of Engineers successfully completed the maintenance dredging for the Palm Beach Harbor. The Palm Beach Harbor Maintenance Dredge project included the removal of shoal material from the Entrance Channel, Southern and Northern Turning Basins, as well as the Settling Basin, Expanded and Extended Basins. A total volume of 237,923 cubic yards were dredged and placed on the designated beach area south of the Lake Worth inlet south jetty. Post-dredging hydrographic survey data indicated that the dredge has been performed to the required depths within the over dredge allowance.

During the first week of March 2018, the Palm Beach Harbor was impacted by hazardous weather conditions as a result of the effects of a Nor'easter moving through the area. The Nor'easter created high swells and strong winds, which impeded the cruise and vessel traffic in accessing the Port. A post-storm survey performed by the ACOE revealed severe shoaling at the entrance channel as a result of the direct impact from the passing storm. Due to the impact of the accumulated material in the channel, the Palm Beach Pilots Association had issued Draft Restrictions for the Lake Worth Inlet for vessels calling on the Port of Palm Beach. Within a short time of the completion of the annual maintenance dredge, the shoaling depth will be aggravated as the normal material accumulation continues to take place. This is a critical situation for the Port of Palm Beach and its users. Of particular importance is the new vessel activities planned for our Port. As an example, Tropical Shipping is scheduled to receive its first of five new ships in a few months from now. These five container vessels that are being built are wider than the largest ship currently in their fleet by at least five feet. Additionally, our cruise company will commence sailing two passenger vessels on Friday, April 13, 2018 instead of just one. Essentially the Port of Palm Beach will have a passenger vessel crossing the inlet every day.

The Port of Palm Beach recognizes the urgent compelling need to address this critical situation and understands the need for immediate action. The Port respectfully requests the ACOE to begin the necessary coordination for the execution of an emergency relief dredge to an unrestricted depth at the Palm Beach Harbor entrance channel.

Thank you for your attention to this important matter. If you have any questions, please contact me at (561) 383-4131.

Regards,

A handwritten signature in black ink that reads "Manuel Almira". The signature is written in a cursive style with a large, prominent initial "M".

Manuel Almira  
Port Executive Director

Attachment

cc: Jerry T. Murphy, USARMY CE Deputy District Engineer  
Bryan Merrill, USARMY CE Project Manager  
Kenneth L. Hern, PoPB Senior Director of Port Operations  
José Soler, PoPB Port Engineer



Gregory G. Turner  
William G. Roden, Jr.

William D. Messer  
Matthew L. Rigby  
Reid R. Hansen

### **Palm Beach Harbor Pilots' Association**

200 E. 13<sup>th</sup> Street, Suite B  
Riviera Beach, Florida 33404-6930  
Office: (561) 845-2628  
Email: [PBPilots@aol.com](mailto:PBPilots@aol.com)

March 31<sup>th</sup>, 2018

To: Vessel Operators, Ships Agents, Port Users, & Port Officials

Subject: Draft Restrictions for Lake Worth Inlet

Recent soundings approved by the Army Corps of Engineers show moderate shoaling on the north quarter of the entrance channel from passing storms. All vessels are restricted to a maximum operating draft of 32' feet at high water slack and 29' feet at low water slack. Vessels arriving within 3 feet of the maximum allowable draft for the Port of Palm Beach will be restricted to transiting at High Water Slack. All drafts are for salt water.

Vessels carrying petroleum products are reduced to 31' feet at high water slack and 28' feet at low water slack.

Slip 1 has a maximum operating draft of 29' feet . Slip 2 and 3 have a maximum operating draft of 32' feet except for molasses tankers which can load and sail at 33' HWS from berth 16.

Please contact us if you have any further questions.

Sincerely,

Palm Beach Harbor Pilots' Association